



UNIVERSITY OF CALGARY

CUMMING SCHOOL OF MEDICINE
Department of Paediatrics, Alberta Children's Hospital

CURRICULUM VITAE

August 2015

I. BIOGRAPHICAL DATA

Brent Edward Hagel

Associate Professor
Departments of Paediatrics and Community Health Sciences
Faculty of Medicine
University of Calgary

Alberta Children's Hospital
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II. ACADEMIC RECORD

PhD (Dean's Honor List)
09/99 – 09/03
Epidemiology and Biostatistics
McGill University, Montreal, QC, Canada

MSc
09/95 – 06/98
Epidemiology
University of Calgary, Calgary, Alberta, Canada

BPE (with Distinction)
01/89 – 06/93
Physical Education
University of Calgary, Calgary, Alberta, Canada

III. AWARDS AND DISTINCTIONS

- 10/12 Faculty of Medicine Outstanding Graduate Teaching Award
- 11/10 – 10/15 Reappointment to the Alberta Children’s Hospital Foundation
Professorship in Child Health & Wellness
- 07/07 – 07/12 Canadian Institutes of Health Research New Investigator Award
- 07/07 – 07/14 Alberta Heritage Foundation for Medical Research Population Health
Investigator Award
- 11/05 – 10/10 Named to the Alberta Children’s Hospital Foundation Professorship in
Child Health & Wellness
- 06/04 7th World Conference on Injury Prevention and Safety Promotion
Vienna, Austria, June 6-9, 2004
Title: Helmet effectiveness in skiers and snowboarders.
Winner: Best Oral Presentation
- 05/03 Montreal Children’s Hospital Research Institute – Annual Research Day
Montreal, Quebec, Canada
Title: Helmet effectiveness in skiers and snowboarders
Winner: Best Oral Presentation: Clinical Research Category
- 05/03 Declined offer of Alberta Heritage Foundation for Medical Research –
Health Research Full-Time Postdoctoral Fellowship to take up position as
Research Associate (Sept. 15/03 – Sept. 15/04) in the Department of
Public Health Sciences at the University of Alberta leading to the
appointment of Assistant Professor (Sept. 16/04)
Award Value: \$37,500
- 09/02 – 08/03 Alberta Heritage Foundation for Medical Research Studentship Funding
Award Value: \$21,500
- 09/01 – 08/02 Alberta Heritage Foundation for Medical Research Studentship Funding
Award Value: \$21,500
- 09/00 – 08/01 Alberta Heritage Foundation for Medical Research Studentship Funding
Award Value: \$20,000
- 09/99 – 08/00 Alberta Heritage Foundation for Medical Research Studentship Funding
Award Value: \$20,000
- 09/93 – 04/94 Scholarship Award, The Robert Spence Foundation, Calgary, AB
Award Value: \$750

09/92 – 04/93 Scholarship Award, The Robert Spence Foundation, Calgary, AB
Award Value: \$1,000

09/90 – 04/91 Scholarship Award, The Robert Spence Foundation, Calgary, AB
Award Value: \$1000

IV. ACADEMIC APPOINTMENTS

08/15 – Lead for Development of Research Capacity
Department of Paediatrics
Cumming School of Medicine
University of Calgary
Calgary, Alberta, Canada

04/11 – Associate Professor
Department of Paediatrics and Community Health Sciences
Faculty of Medicine
University of Calgary
Calgary, Alberta, Canada

08/05 – 03/11 Assistant Professor
Department of Paediatrics and Community Health Sciences
Faculty of Medicine
University of Calgary
Calgary, Alberta, Canada

09/04 – 07/05 Assistant Professor
Alberta Centre for Injury Control & Research
Department of Public Health Sciences
Faculty of Medicine
University of Alberta
Edmonton, Alberta, Canada

09-03 – 09/04 Research Associate
Alberta Centre for Injury Control & Research
Department of Public Health Sciences
Faculty of Medicine
University of Alberta
Edmonton, Alberta, Canada

V. EDUCATIONAL ACTIVITIES

Teaching Experience

01/08 – 04/15 **Advanced Epidemiology (Course Chair)**
Department of Community Health Sciences
Faculty of Medicine, University of Calgary, Calgary, AB
Course co-chair with Dr. Colleen Maxwell (Jan-April, 2009-2011)

Course co-chair with Dr. Margaret Russell (Jan-April, 2008); deliver lectures and tutorials on advanced epidemiologic topics including study design and data analysis to graduate students in the Department of Community Health Sciences.

10/07 – 11/14 **Paediatric Resident Research Course**

Department of Paediatrics

Faculty of Medicine, University of Calgary, Calgary, AB

Lectures and small group sessions with residents and fellows in the Department of Paediatrics. Specific lectures included: study design, design and analysis of case-control studies, design and analysis of cohort studies. Contributed to development of lectures given by Dr. Alberto Nettel-Aguirre on introductory statistics, randomized controlled trials and diagnostic studies.

11/05 – 11/06 **Paediatric Resident Research Course**

Department of Paediatrics

Faculty of Medicine, University of Calgary, Calgary, AB

Taught residents and fellows in the Department of Paediatrics statistical issues in the context of conducting research. Specific lectures included: descriptive statistics, hypothesis testing and sample size calculations, correlation and linear regression, multiple linear regression, and measures of disease frequency and diagnostic tests.

05/08 **Physical Medicine and Rehabilitation Lecture**

Faculty of Medicine, University of Calgary, Calgary, AB

One 3 hour lecture and worksheet exercise on epidemiologic study designs for residents of the Physical Medicine and Rehabilitation program at the request of Dr. John Latter.

12/03 – 10/05 **Public Health Sciences course 596 – Injury Epidemiology**

Department of Public Health Sciences

Faculty of Medicine & Dentistry, University of Alberta, Edmonton, AB

Taught one session each year for the past 3 years

Professor: Dr. Louis Francescutti

Introduce students to the fundamentals of epidemiologic study design as well as advanced methods applicable to injury research such as the case-crossover study and matched pair cohort methods.

03/05 **Medical Student Teaching – Small Group Sessions**

Faculty of Medicine & Dentistry, University of Alberta, Edmonton, AB

Coordinator: Dr. Stephen Newman

Reinforce statistical and epidemiological concepts introduced in a separate lecture to a group of approximately 10 medical students.

09/03 – 12/03 **Public Health Sciences course 596 – Epidemiology I**

Department of Public Health Sciences

Faculty of Medicine & Dentistry, University of Alberta, Edmonton, AB
Co-taught with Dr. Linda Carroll and Dr. Stephen Newman
Introduce students to the fundamentals of study design and epidemiological data analysis. Assisted with the development and marking of the midterm and final examinations.

05/01 – 05/03 **Introduction to Epidemiology**

Professor: Dr. Jean-Francois Boivin
Department of Epidemiology and Biostatistics
Faculty of Medicine, McGill University, Montreal, PQ
Grader. In a group setting, grade papers dealing with introductory concepts in epidemiology including study design and measures of effect.

11/00 – 11/02 **Introduction to Epidemiology and Biostatistics – Unit 8**

Professors: Dr. James Hanley, Dr. Joyce Pickering, Dr. Charles Larson
Faculty of Medicine, McGill University, Montreal, PQ
Teaching Assistant for Second Year Medical Students. Reinforce statistical and epidemiological concepts introduced in a separate lecture to a group of approximately 15 medical students during interactive, 2-hour tutorial sessions. Students were graded after each tutorial session on their participation and comprehension of the material. Topic areas covered in the small group sessions included: i) Hypothesis Testing and P-values, ii) Descriptive Studies, iii) Cohort Studies, and iv) Randomized Clinical Trials.

04/01 – 05/03 **Data Analysis II-Logistic Regression**

Professor: Dr. Robert Platt
Department of Epidemiology and Biostatistics
Faculty of Medicine, McGill University, Montreal, PQ
Teaching Assistant. Mark assignments designed to help students in their understanding of regression analysis for categorical variable outcomes. This included linking the standard 2x2 table analysis techniques (i.e., Mantel-Haenszel) to the logistic regression model output, model fitting strategies, model coefficient interpretation, and the use of regression diagnostics.

01/01 – 04/01 **Data Analysis I-Linear Regression**

Professor: Dr. Michal Abrahamowicz
Department of Epidemiology and Biostatistics
Faculty of Medicine, McGill University, Montreal, PQ
Teaching Assistant. Act as a resource person for students completing a data analysis project with a continuous or interval variable outcome (i.e., linear regression). Students sought advice on model fitting, model coefficient interpretation, and various regression diagnostics.

Mentorship

09/14 – Department of Paediatrics Mentorship Program
Dr. Amelie Stritzke

03/12 – Alberta Innovates – Health Solutions Postdoctoral Application
Dr. Carly McKay

Graduate Student Supervision

- 09/15 – **Tatum Mitra** – MSc Thesis Co-Supervisor
Faculty of Kinesiology
University of Calgary, Calgary, AB
Tentative Title: Evaluation of a Ski and Snowboard Video for the Prevention of Injuries in School Ski and Snowboard Programs
- 09/15 – **Shawn Dodd** – MSc Thesis Co-Supervisor
Medical Science
Cumming School of Medicine
University of Calgary, Calgary, AB
Tentative Title: **TBD**
- 09/15 – **Dr. Bhavneet Kahlon** – MSc Thesis Committee
Community Health Sciences
Cumming School of Medicine
University of Calgary, Calgary, AB
Tentative Title: Kidney function deterioration during ages 18-25 compared to older individuals, using the Alberta Kidney Disease Network lab data repositories.
- 05/15 – **Maciek Krolkowski** – MSc Thesis Committee
Faculty of Kinesiology
University of Calgary, Calgary, AB
Title: Evaluation of Policy Change on Physical Contact in Youth Ice Hockey Using Video Analysis
- 03/14 – **Rebecca Carnduff** – MSc Thesis Committee
Faculty of Kinesiology
University of Calgary, Calgary, AB
Title: Sport and recreational injury prevention knowledge uptake in junior high school students and physical education teachers
- 03/14 – **Paul Eliason** – MSc Thesis Committee
Faculty of Kinesiology
University of Calgary, Calgary, AB
Title: The effect of previous concussion on sport-specific skill performance in youth ice hockey players.
- 09/12 – **Amy Couperthwaite** – MSc Thesis Supervisor
Department of Community Health Sciences
Faculty of Medicine

University of Calgary, Calgary, AB
Topic: The effect of Emergency Medical Services response times on
paediatric trauma outcomes

- 09/11 – **Ken Pfister** – MSc Thesis Supervisor
Department of Community Health Sciences
Faculty of Medicine
University of Calgary, Calgary, AB
Topic: Ski and snowboard helmet prevalence in Southern Alberta
- 05/10 – 10/11 **Megan Sandomierski** – MA Thesis Committee
Department of Psychology
University of Guelph
Topic: How swim lessons impact parent beliefs about drowning risk and
supervision needs for young children
- 10/09 – 11/10 **Grace Wang** – MSc Thesis Committee
Department of Community Health Sciences
Faculty of Medicine
University of Calgary
Topic: Evaluation of the two logistic regression models in case-control
studies
- 09/09 – 12/11 **Nicole Ruest** – MSc Thesis Supervisor
Department of Community Health Sciences
Faculty of Medicine
University of Calgary, Calgary, AB
Topic: The environmental determinants of cycling injuries
- 02/08 – 11/09 **Melissa Decloe** – MSc Thesis Committee
Faculty of Kinesiology
University of Calgary, Calgary, AB
Thesis Title: Risk factors and mechanisms of injury among female youth
ice hockey players
- 12/07 – **Charlie Victorino** – PhD Thesis Committee
Department of Sociology
University of Calgary, Calgary, AB
Topic: Social determinants of pediatric injury
- 05/07 – 11/08 **Albert E. Sole** – MSc Thesis Committee
Faculty of Kinesiology
University of Calgary, Calgary, AB
Thesis Title: Risk taking in avalanche terrain: understanding risk factors
for non-professionals

- 01/07 – 06/11 **Kelly Russell** – PhD Thesis Co-Supervisor (with Dr. Willem Meeuwisse)
 Department of Community Health Sciences
 Faculty of Medicine
 University of Calgary, Calgary, AB
 Topic: The relationship between injuries and terrain park feature use among pediatric and adult snowboarders in Alberta
- 09/06 – 11/09 **Ian Blanchard** – MSc Thesis Committee
 Department of Community Health Sciences
 Faculty of Medicine
 University of Calgary, Calgary, AB
 Topic: Advanced life support ambulance response time and survival in a large urban emergency medical services system
- 07/06 – 08/12 **Rithesh Ram** – PhD Thesis Committee
 Department of Community Health Sciences
 Faculty of Medicine
 University of Calgary, Calgary, AB
 Topic: The efficacy of sclerosing therapy in the treatment of chronic painful Achilles tendinopathy and comparison of outcome measures used in assessment procedures for Achilles tendinopathy intervention studies
- 12/04 – 08/11 **Dr. Mohammad Karkhaneh** – PhD Thesis Committee (Co-Supervisor with Dr. Brian Rowe since April 2007)
 Department of Public Health Sciences
 Faculty of Medicine & Dentistry
 University of Alberta, Edmonton, AB
 Topic: Bicycle helmet use and bicyclist head injuries before and after helmet legislation in Alberta Canada

Undergraduate Student supervision

- 05/15 – 08/15 **Mateus Farias**
 Biological Sciences Student
 University of Calgary
 Project: Using Emergency Medical Services Data to Identify the Environmental Characteristics of Child & Youth Bicycling Injuries
- 05/15 – 08/15 **Dirk Chisholm**
 Kinesiology Student
 Faculty of Kinesiology
 University of Calgary, AB
 Project: Emergency Medical Services Response Time and Morbidity in Paediatric Trauma Patients in the Urban Setting: A Cohort Study
- 05/15 – 08/15 **Ravneet Sran**
 Bachelor of Health Sciences Student

Faculty of Medicine
University of Calgary, Calgary, AB
Project: Ski and Snowboard School Programs: Injury Surveillance and
Risk Factors for Injury

09/14 – 04/15 **Dirk Chisholm**
Kinesiology Student
Faculty of Kinesiology
University of Calgary, AB
Project: Emergency Medical Services Response Time and Morbidity in
Paediatric Trauma Patients in the Urban Setting: A Cohort Study

09/14 – 04/15 **Ravneet Sran**
Bachelor of Health Sciences Student
Faculty of Medicine
University of Calgary, Calgary, AB
Project: Ski and Snowboard School Programs: Injury Surveillance and
Risk Factors for Injury

05/14 – 08/14 **Dirk Chisholm**
Kinesiology Student
Faculty of Kinesiology
University of Calgary, AB
Project: Mouthguard Use in Youth Ice Hockey and the Risk of Concussion
and Dental Trauma

05/14 – 08/14 **Ravneet Sran**
Bachelor of Health Sciences Student
Faculty of Medicine
University of Calgary, Calgary, AB
Project: Ski and Snowboard School Programs: Injury Surveillance and
Risk Factors for Injury

09/12 – 04/13 **Nancy Enns** – Honours Thesis Student
Bachelor of Health Sciences Student
Faculty of Medicine
University of Calgary, Calgary, AB
Project: Age Related Comparisons of Injury Profile and Characteristics for
Skiers and Snowboarders

05/13 – 08/13 **Bryn Edgerton**
Kinesiology Student
Faculty of Kinesiology
University of Calgary, AB
Project: Helmet use and correct helmet use among skiers and
snowboarders in Southern Alberta

- 05/13 – 08/13 **Erin Hildebrandt**
Kinesiology Student
Faculty of Kinesiology
University of Calgary, AB
Project: Reliability of helmet use observation among skiers and snowboarders in Alberta
- 05/13 – 08/13 **Aish Sundaram**
Medical Student
Faculty of Medicine
University of Alberta, AB
Project: Risk factors for body region specific injuries among skiers and snowboarders
- 09/12 – 04/13 **Nancy Enns** – Third Year Undergraduate Project
Bachelor of Health Sciences Student
Faculty of Medicine
University of Calgary, Calgary, AB
Project: Risk factors for severe injuries in child and adolescent bicyclists
- 05/12 – 08/12 **Natalie Morgunov**
Undergraduate Nursing Student
Faculty of Nursing
University of Calgary, Calgary, AB
Project: Cycling Injury Risk Factor Study
- 05/12 – 08/12 **Jackie Williamson**
Bachelor of Health Sciences Student
Faculty of Medicine
University of Calgary, Calgary, AB
Project: Bicycle helmet fit and head injury risk
- 09/11 – 04/12 **Jackie Williamson** – Third Year Undergraduate Project
Bachelor of Health Sciences Student
Faculty of Medicine
University of Calgary, Calgary, AB
Project: Bicycle helmet fit and head injury risk
- 05/11 – 08/11 **Hannah Mercader**
Bachelor of Health Sciences Student
Faculty of Medicine
University of Calgary, Calgary, AB
Project: Risk factors for all-terrain-vehicle (ATV) injuries in children and youth

- 09/10 – 04/11 **Jillian Wishart** – Honours Thesis Student
Bachelor of Health Sciences Student
Faculty of Medicine
University of Calgary, Calgary, AB
Project: Terrain park injuries in snowboarders
- 09/10 – 04/11 **Natalie Morgunov** – Honours Thesis Student
Bachelor of Health Sciences Student
Faculty of Medicine
University of Calgary, Calgary, AB
Project: Risk factors for motor-vehicle related cycling injuries
- 05/10-10/10 **Jonathan Lee**
Bachelor of Health Sciences Student
Faculty of Medicine
University of Calgary, Calgary, AB
Project: The Relationship Between Traffic Volume and Cyclist Injuries
- 05/10 – 08/10 **Michelle Nguyen**
Bachelor of Health Sciences Student
Faculty of Medicine
University of Calgary, Calgary, AB
Project: Terrain Park Injuries in Cyclists
- 09/09 – 04/10 **Vanessa Wainwright** – Honours Thesis Student
Bachelor of Health Sciences Student
Faculty of Medicine
University of Calgary, Calgary, AB
Project: The economic burden of snowboard injuries that occur in a terrain park
- 09/09 – 04/10 **Laura Mosher** – Third Year Undergraduate Project
Bachelor of Health Sciences Student
Faculty of Medicine
University of Calgary, Calgary, AB
Project: The relationship between severe injuries and terrain park equipment use among pediatric snowboarders in Alberta
- 05/09 – 09/10 **Jasdeep Hayer**
Bachelor of Sciences Student
Faculty of Medicine
University of Calgary, Calgary, AB
Project: Do Injured Cyclist Interviews Accurately Capture the Risk Factors for Motor Vehicle Related Cycling Injuries?
- 09/08 – 04/09 **Lara Branson** – Honours Thesis Student

Bachelor of Health Sciences Student
Faculty of Medicine
University of Calgary, Calgary, AB
Project: Injuries on Calgary-area playgrounds: what is the effect of surfacing and season?

09/08 – 04/09 **Vanessa Wainwright** – Third Year Undergraduate Project
Bachelor of Health Sciences Student
Faculty of Medicine
University of Calgary, Calgary, AB
Project: The relationship between severe injuries and terrain park equipment use among pediatric snowboarders in Alberta

09/08 – 04/09 **Josh Christie** – Honours Thesis Student
Bachelor of Health Sciences Student
Faculty of Medicine
University of Calgary, Calgary, AB
Project: Factors associated with snowboard helmet effectiveness and the profile and severity of head, neck and facial injuries in a terrain park setting

09/07 – 04/08 **Rene Lee** – Honours Thesis Student
Bachelor of Health Sciences Student
Faculty of Medicine
University of Calgary, Calgary, AB
Project: Factors associated with correct helmet use in Alberta

09/07 – 04/08 **Leo Tam** – Honours Thesis Student
Bachelor of Health Sciences Student
Faculty of Medicine
University of Calgary, Calgary, AB
Project: Risk factors for injuries in children's ice hockey

09/07 – 04/08 **Olivia McCreary** – Third Year Undergraduate Project
Bachelor of Health Sciences Student
Faculty of Medicine
University of Calgary, Calgary, AB
Project: Risk factors for injuries in children's ice hockey

05/08 – 08/08 **Riana Downs** – Summer Student
Department of Paediatrics
Faculty of Medicine
University of Calgary, Calgary, AB
Project: Does visibility reduce the risk of being struck by a motor vehicle among cyclists?
Calgary Health Region/Calgary Laboratory Services Summer Studentship (2008)

- 05/08 – 08/09 **Lara Branson** – Summer Student
Department of Paediatrics
Faculty of Medicine
University of Calgary, Calgary, AB
Project: The Effect of Seasonality on the Rate of Injury on Calgary Board of Education Playgrounds
University of Calgary Bachelor of Health Sciences Summer Studentship (2008)
- 05/06 – 08/08 **Lynnette MacDonald** – Summer Student
Department of Paediatrics
Faculty of Medicine
University of Calgary, Calgary, AB
Project: The effect of bike helmet legislation on helmet use, head injuries and cycling habits (2006); Does visibility reduce the risk of being struck by a motor vehicle among cyclists? (2008)
AHFMR Summer Studentship (2006)
- 05/06 – 08/07 **Janna Tram** – Summer Student
Department of Paediatrics
Faculty of Medicine
University of Calgary, Calgary, AB
Project: The effect of bike helmet legislation on helmet use, head injuries and cycling habits (05/06 – 08/06); Injuries caused by Wheeled shoes presenting to the Alberta Children’s Hospital emergency department: comparison with other non-motorized wheeled activities (05/07 – 08/07)
AHFMR Summer Studentship (2007)
- 05/06 – 08/06 **Rene Lee** – Summer Student
Co-supervisor with Dr. Brian Rowe
Department of Emergency Medicine
Faculty of Medicine
University of Alberta, Edmonton, AB
Project: The effect of bike helmet legislation on helmet use, head injuries and cycling habits
- 05/06 - 08/06 **Angela Karlos** - Summer Student
Department of Paediatrics, Faculty of Medicine,
University of Calgary, Calgary AB
Project: Neck injury risk in relation to helmet use in skiers and snowboarders
- 05/05 – 08/05 **Amy Couperthwaite** – Summer Student
Co-supervisor with Dr. Brian Rowe and Dr. Donna Dryden
Alberta Centre for Injury Control & Research

Department of Public Health Sciences and Department of Emergency
Medicine
Faculty of Medicine & Dentistry
University of Alberta, Edmonton, AB
Project: Body checking in minor hockey: An analysis of injuries treated in
the emergency departments of the Capital Health Region

05/05 – 08/05 **Joe Sommerfeldt** – Summer student
Co-supervisor with Dr. Brian Rowe and Dr. Donna Dryden
Alberta Centre for Injury Control & Research
Department of Public Health Sciences and Department of Emergency
Medicine
Faculty of Medicine & Dentistry
University of Alberta, Edmonton, AB
Project: Body checking in minor hockey: An analysis of injuries treated in
the emergency departments of the Capital Health Region

06/04 – 08/04 **Jacques Rizkallah** – Alberta Heritage Foundation for Medical Research
Summer student Co-supervisor
Supervisor: Dr. Brian Rowe
Co-supervisor: Dr. Nicola Cherry, Ms. Kathy Belton
Professor Gian Jhangri, Dr. William Sevcik
Alberta Centre for Injury Control & Research
Department of Public Health Sciences and Division of Emergency
Medicine
Faculty of Medicine & Dentistry
University of Alberta, Edmonton, AB
Project: Reflective clothing use among cyclists and pedestrians

06/04 – 08/04 **Andrea Lamy** – Summer Temporary Employment Program student
supervisor
Alberta Centre for Injury Control & Research
Department of Public Health Sciences
Faculty of Medicine & Dentistry
University of Alberta, Edmonton, AB
Project: Reflective clothing use among cyclists and pedestrians

VI. ADMINISTRATIVE RESPONSIBILITIES

University

03/15 MSc Thesis Internal External Examiner
Faculty of Nursing, University of Calgary
Candidate: Morgan Yates
Supervisor: Dr. Karen Benzies
Thesis Title: Neighbourhood Safety and Childhood Obesity: How the Built
Environment Influences our Children's Health

Faculty

- 09/15 – ACHRI Healthy Outcomes Theme Letter of Intent (LOI) Review Council
- 06/14 Internal/External examiner for PhD Thesis Defense
Faculty of Veterinary Medicine, University of Calgary
Candidate: Maria Negron
Supervisors: Dr. Herman Barkema, Dr. Gil Kaplan
Final Thesis Title: Non-medical reasons for colectomy among ulcerative colitis patients
- 04/13 – Conjoint Health Research Ethics Board: Ad-Hoc Scientific Reviews (n=3)
- 11/11 – 04/12 Alberta Children's Hospital Research Institute for Child and Maternal Health 2012 Symposium Planning Committee
- 01/11 – 05/14 Co-Chair Healthy Outcomes (formerly Healthy Living and Optimizing Health Outcomes) Theme Group with Dr. David Johnson
- 04/07 – 01/11 Chair, Healthy Living and Injury Prevention Theme Group, Alberta Children's Hospital Research Institute of Child and Maternal Health, Faculty of Medicine (merged with Optimizing Health Outcomes Theme Group 2011 resulting in Co-Chair responsibility with Dr. David Johnson)

Departmental

- 05/15 – Department of Paediatrics Lead for Development of Research Capacity
- 01/15 Department of Paediatrics Innovation Award Reviews (n=6)
- 10/14 Internal examiner for PhD Candidacy Examination
Department of Community Health Sciences, Cumming School of Medicine
University of Calgary, Calgary, AB
Candidate: Helen Tham-Tam
Supervisor: Dr. Brenda Hemmelgarn
- 09/14 Internal examiner for PhD Candidacy Examination
Department of Community Health Sciences, Faculty of Medicine
University of Calgary, Calgary, AB
Candidate: Daniel Yavin
Supervisor: Drs. Nathalie Jette & Samuel Wiebe
- 12/13 Internal examiner for PhD Candidacy Examination
Department of Community Health Sciences, Faculty of Medicine
University of Calgary, Calgary, AB
Candidate: Isabelle Vallerand

Supervisor: Dr. Scott Patten

- 02/12 Community Health Sciences Graduate Application Reviews
- 11/11 Search and Selection Committee for Division of Pediatric Respiriology
(~1.5 hours)
Position: Academic Paediatric Physician within the Section of Paediatric
Respirology
- 10/11 – 06/12 Alberta Children’s Hospital Injury Prevention Committee
- 05/10 Internal examiner for PhD Candidacy Examination
Department of Community Health Sciences, Faculty of Medicine
University of Calgary, Calgary, AB
Candidate: Paul Ronksley
Supervisor: Dr. Brenda Hemmelgarn
- 11/08 Search and Selection Committee for Division of Pediatric Emergency
Medicine (~2.5 hours)
Position: Division Chief, Pediatric Emergency Medicine
- 06/08 Search and Selection Committee for Division of Pediatric Emergency
Medicine (~2.5 hours)
Position: Clinical Educator
- 11/07 – Co-Director: for Canadian Hospitals Injury Reporting and Prevention
Program
Alberta Children’s Hospital, Calgary, AB
- 05/05 External examiner for MSc thesis defence in Public Health Sciences
Faculty of Medicine & Dentistry
University of Alberta, Edmonton, AB
Candidate: Wensheng Zhang
Supervisor: Dr. Linda Carroll
Thesis Title: Factors associated with the self-rated health of people within
the first six weeks after traffic-related mild traumatic brain injury
- 01/05 Chair for MSc thesis defence in Public Health Sciences
Faculty of Medicine & Dentistry
University of Alberta, Edmonton, AB
Candidate: Lisa M. Evered
Supervisor: Dr. Brian Rowe
Thesis Title: Options for procedural sedation in paediatric patients
requiring painful or anxiety provoking procedures in Emergency
Departments

- 10/04 – 06/05 Awards Committee, Department of Public Health Sciences
Faculty of Medicine and Dentistry
University of Alberta, Edmonton, AB
- 09/04 External examiner for MSc thesis defence in Public Health Sciences
Faculty of Medicine & Dentistry
University of Alberta, Edmonton, AB
Candidate: Maria Beatriz Ospina
Supervisor: Dr. Brian Rowe
Thesis Title: A critical evaluation of evidence-based emergency medicine
- 04/04 – 06/05 Departmental Council, Department of Public Health Sciences
Faculty of Medicine and Dentistry
University of Alberta, Edmonton, AB

VII. PROFESSIONAL ACTIVITIES

Membership in professional and learned societies

Pediatric Emergency Research Canada (2015)

Society for Advancement of Violence & Injury Research (2014)

Canadian Pediatric Society (2010)

Alberta Children's Hospital Research Institute for Child and Maternal Health (2006)

Professional service

07/15 – Canadian Institutes of Health Research College of Reviewers

03/15 – 04/15 Canadian Institutes of Health Research Foundation Grant Reviewer

03/15 MSc Thesis Examination: The University of Calgary, Canada
Student: Morgan Yates
Thesis Title: Neighbourhood Safety and Childhood Obesity: How the Built Environment Influences our Children's Health

10/14 PhD Thesis Review: The University of Aukland, New Zealand
Student: Dr. Sandar Tin Tin
Thesis Title: Bicycle Travel, Injury Risk and Conspicuity Application of Epidemiological Methods

03/14 PhD Thesis Review: The University of Toronto, Canada
Student: Linda Rothman
Thesis Title: Child Pedestrian-Motor Vehicle Collisions and Walking to School in the City of Toronto: The Role of the Built Environment

- 09/13 Alberta Children's Hospital Research Institute, Dawson Jarock Research Award in Paediatric Nephrology and Rheumatology Grant Review
- 12/13 Canadian Institutes of Health Research Public, Community & Population Health Grant Review Committee
- 05/13 Canadian Institutes of Health Research Public, Community & Population Health Grant Review Committee
- 11/12 – 04/13 Invited by Chief Medical Officer of Health to provide feedback on document: CALL to ACTION: WORKING TOGETHER for an INJURY FREE ALBERTA
- 12/12 Canadian Institutes of Health Research Public, Community & Population Health Grant Review Committee
- 09/12 MSc Thesis Review: The University of Toronto
Student: Dr. Ben Escott
Thesis Title: Childhood Fracture Begets Childhood Fracture: A Population-based Study of Longitudinal Fracture Patterns in Ontario Children
- 09/12 Alberta Children's Hospital Research Institute Internal Review of CIHR Grant Application for fall 2012 competition
Title: Post-concussion syndrome Affecting Youth: GABAergic effects of Melatonin
Principal Investigator: Dr. Karen Barlow
- 11/11 Alberta Children's Hospital Foundation Small Grants Review Committee
- 09/11 PhD Thesis Review: The University of Sydney, Sydney, Australia
Student: Stephanie Hollis
Thesis Title: Managing return-to-play decisions in rugby union following mild Traumatic Brain Injury: a cohort study
- 02/11 & 02/12 Admission Application Reviews - Department of Community Health Sciences (University of Calgary)
- 07/09 Alberta Children's Hospital Foundation Small Grants Review Committee
- 05/09 Scientific Review – Child Health Research (Alberta Children's Hospital)
- 01/08 Alberta Children's Hospital Foundation Grant Review Committee
- 08/07 Alberta Heritage Foundation for Medical Research Conference Grant Review Committee

- 12/07 Alberta Children's Hospital Foundation Grant Review Committee
- 02/07 Co-organized the 13th Annual Child Health Research Symposium
Paediatric Research Day
Department of Paediatrics, Faculty of Medicine, University of Calgary
Calgary, AB, February 8th, 2007
Theme: Injury Prevention
- 06/06 Alberta Children's Hospital Foundation Grant Review Committee
- 11/05 Alberta Children's Hospital Foundation Grant Review Committee
- 02/04 Adjudication committee for proposals on the "Analysis of Sports Injury Data" for the Ontario Neurotrauma Foundation
- 01/04 Randomized Controlled Trials Outline review for the Canadian Institutes of Health Research

Journal reviews

- 03/13 - Article Reviewer for *Preventive Medicine*
- 04/12 - Article Reviewer for *Paediatrics*
- 11/11 - Article Reviewer for *Accident Analysis & Prevention*
- 11/06 - Article Reviewer for *British Journal of Sports Medicine*
- 08/09 – Article Reviewer for *Traffic Injury Prevention*
- 08/07 – Article Reviewer for *Paediatrics & Child Health*
- 08/05 – Article reviewer for the *Journal of the American Medical Association*
- 01/05 – Article reviewer for *American Journal of Public Health*
- 10/04 – Article reviewer for *Canadian Medical Association Journal*
- 10/04 – Article Reviewer for *Canadian Journal of Public Health*
- 01/00 – Article Reviewer for *Injury Prevention*
- 05/99 – Article Reviewer for the *Clinical Journal of Sport Medicine*

Editorships

- 08/12 – Editorial board member for *Chronic Diseases and Injuries in Canada*

- 07/06 – Editorial board member for *Injury Prevention*
- 01/06 – 08/12 Editorial board member for the *Journal of Science and Medicine in Sport*
- 03/04 – Editorial board member for the *Clinical Journal of Sport Medicine*
- National and international committees*
- 07/10 – Canadian Paediatric Society Injury Prevention Committee
- 05/04 – 06/12 National Expert Advisory Committee for Safe Kids Canada
- 12/03 – 02/06 ThinkFirst Smart Skiing and Snowboarding Evaluation Sub-committee
- 10/03 – 11/10 Alberta Occupant Restraint Program Research and Evaluation Sub-committee
- 09/01 – 08/02 Planning Committee for the Canadian Society for Epidemiology and Biostatistics Student Conference – Montreal August 17th, 2002
- 01/01 – 12/01 Student representative – PhD Comprehensive Examination Committee
Department of Epidemiology and Biostatistics
McGill University, Montreal, PQ
June, 2001 examination; December 2001 examination

Workshops

- 06/14 Navigational Conversations (Leadership Development). Envision Group

VIII. RESEARCH SUPPORT

Refereed Grants

- 07/15 – 07/20 Funding Agency: Canadian Institutes of Health Research Open Operating Grant
Principal Applicants: Brussoni M, Mâsse L
Co-Applicants: **Hagel BE**, Herrington S, Janssen I, Pickett W, Pike I, Schuurman N, Tremblay M
Project Title: State of Play: Socio-ecological perspectives on children's outdoor play
Amount: \$846,725
- 06/15-06/18 Alberta Children's Hospital Foundation
Principal Investigator: Dr. Graham Thompson
Co-Investigators: Freedman S, Hagel BE, Johnson D, Stang A, Mikrogianakis A, Thull-Freedman J
Project Title: Paediatric Emergency Medicine Research Associates Program (PEMRAP)
Amount: \$750,000

- 11/14 – 03/17 Ministère de l'Éducation, du Loisir et du Sport
Principal Investigator: Goulet C
Co-Investigators: Valois P, Macpherson A, Tremblay B, **Hagel BE**, Russell KA
Project Title: **Conception et validation d'un protocole d'évaluation de l'aménagement des parcs à neige dans les stations the ski alpin du Québec**
Amount: \$67,000
- 11/14 – 11/15 Alberta Centre for Child, Family and Community Research
Principal Investigator: Emery CA
Co-Principal Investigator: Hagel BE
Co-Investigators: Doyle-Baker T, Richmond S, McCormack G, Nettel-Aguirre A, McKinlay M, Verhagen E, McKay C, Marshall D, Currie G, Ferber R, Belton K, Carnduff R, Van Den Berg C, Romiti M, Romanow N
Project Title: Evaluating the effectiveness of neuromuscular training in decreasing the risk of sport and recreational injuries and improving healthy outcomes in junior high school students
Amount: \$39,678.80
- 04/13 – 04/18 Alberta Innovates Health Solutions – Collaborative Research and Innovation Program
Collaborative Co-Leads: Emery CA, **Hagel BE**
Collaborative Members: Meeuwisse WH, McCormack G, Rowe BH, Nettel-Aguirre A, Voaklander D, Finch C, Verhagen E, Macpherson A, Groff P, Goulet C, Kang J, McKay C, Richmond SA, Schneider K, Russell K, Doyle-Baker PK, Babul S, Marshall D, Currie GR, Ferber R.
Program Title: Alberta Program in Youth Sport and Recreational Injury Prevention
Amount: \$2,500,000
- 04/13 – 04/18 Canadian Institutes of Health Research & Hotchkiss Brain Institute - Team Grant: Mild Traumatic Brain Injury in Children and Youth: Best Practices in Early Diagnosis and Treatment
Principal Investigator: Emery CA
Co-investigators: Meeuwisse WH, Dukelow S, Debert C, Brooks B, Shneider K, Benson B, McKay C, Kang J, Barlow K, Babul S, Macpherson A, **Hagel BE**, Iverson GL, Scott I.
Project Title: 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.
Amount: \$1,495,383
- 01/13 – 01/16 Alberta Innovates Health Solutions – Collaborative Research and Innovation Project
Collaborative Lead: Kirton A,
Collaborative Co-leads: Yager J, Andersen J

Collaborative Members: **Hagel B**, Nettel-Aguirre A, Hill M
Project Title: The Alberta Perinatal Stroke Project
Amount: \$750,000

- 10/12 Alberta Innovates Health Solutions – Collaborative Research and Innovation Program Letter of Intent
Principal Co-Applicants: Emery CA, **Hagel BE**
Co-Applicants: Meeuwisse WH, McCormack G, Rowe BH, Nettel-Aguirre A, Voaklander D, Finch C, Verhagen E, Macpherson A.
Program Title: Alberta Program in Youth Sport and Recreational Injury Prevention (Funded Letter of Intent)
Amount: \$10,000
- 11/12 – 06/14 Alberta Children’s Hospital Research Institute for Child and Maternal Health Large Grants Competition
Principal Applicant: **Hagel BE**
Co-Applicants: Emery CA, Rowe BH, Goulet C, Russell K, Nettel-Aguirre A, Meeuwisse WH, Lang E, McRae A, Ruest N, Pfister K
Project Title: Helmet use and risk factors for injuries among skiers and snowboarders
Amount: \$49,972
- 07/11 – 06/12 Alberta Centre for Child, Family and Community Research
Co-Principal Applicants: Ferri-de-Barros F, **Hagel BE**
Co-Investigators: Elaine Joughin, Angelo Mikrogianakis, Vincent Grant, Candace Lind, Nancy Staniland, Valerie Bolso, Madelyne Porter
Project Title: Evidence based education for paediatric injury prevention
Amount: \$9,999
- 05/10 – 12/11 Alberta Centre for Child, Family and Community Research
Principal Applicant: **Brent Hagel**
Co-Investigators: Brian Rowe, Gavin McCormick, Dr. Alberto Nettel-Aguirre, Don Voaklander, Tania Embree, Nicole Ruest, Jeff Gruttz, Craig Tonder, Mike O’Connor, Pamela Fuselli
Project Title: Environmental determinants of cycling injuries
Amount: \$39,994
- 09/09 – 09/18 Funded by the International Olympic Committee: Research Centres for Prevention of Injury and Protection of Athlete Health
Principal Applicant: Meeuwisse WH
Co-Applicants: Emery CA, Mohtadi N, **Hagel BE**
Project Title: Sport Injury Prevention Research Centre
Amount: \$900,000 (\$100,000 per year x 9 years)
- 04/10 – 01/15 Canadian Institutes of Health Research: Strategic Teams in Applied Injury Research

Principal Investigator: Pike I, Macpherson A
Co-Investigators: Brussoni M, Pickett W, Morrongiello B, Schuurman N, Warda L, Yanchar N, Swaine B, Fuselli P, Desapriya E, **Hagel BE**, Hameed M, Babul S, Simons R, Bruce B, Leadbeater B, Nathens A, Howard A, McDonald R-A, Emery C, Piotrowski C, Meeuwisse, W

Project Title: Child and Youth Injury Prevention (Team co-lead: “High Risk Populations” Project)

Amount: \$2,000,000 over 6 years (2009/10: \$100,000; 2010/11: \$400,000; 2011/12: \$400,000; 2012/13: \$400,000; 2013/14: \$400,000; 2014/15: \$300,000)

01/09 – 01/13 Funded by the Canadian Institutes of Health Research

Principal Applicant: Morrongiello B

Co-Applicants: **Hagel BE**, MacGregor CG, Mitton C, Schuurman, NC

Project Title: Child Pedestrian Injury: Advancing research methods, knowledge of injury etiology, and prevention approaches

Amount: \$481, 869 (120,467.25/yr for 4 years)

09/08 – 08/09 Funded by the Alberta Centre for Child, Family and Community Research

Principal Applicant: Dr. Carolyn Emery

Co-Applicants: Meeuwisse WH, **Hagel BE**

Research Coordinator: Decloe M.

Project Title: Risk Factors and Mechanisms of Injury among Female Youth Ice Hockey Players

Amount: \$39,996.35

07/07 – 06/14 Funded by Alberta Heritage Foundation for Medical Research Population-Health Investigator Research Allowance

Awarded to: **Hagel BE**

Amount: \$35,000

07/07 – 06/12 Funded by Alberta Heritage Foundation for Medical Research-Population Health Investigator Incentive

Awarded to: **Hagel BE**

Amount: \$120,000 (\$24,000 per year x 5 years)

07/07 – 06/10 Funded by Alberta Heritage Foundation for Medical Research Population Health Investigator Establishment Grant

Awarded to: **Hagel BE**

Amount: \$250,000 (2007: \$100,000; 2008: \$75,000; 2009: \$75,000)

05/07 – 08/08 Funded by Alberta Traffic Safety Foundation

Principal Investigators: Johnston D, Beck C, **Hagel BE**

Co-Investigators: Beringer C, Elnitsky S, Curtis M

Project Title: Exploring attitudes towards bicycle helmet use among 12 to 17 year old males in Calgary

Amount: \$10,000

- 04/07 – 03/09 Funded by Canadian Institutes of Health Research Operating Grant
Principal Investigator: Emery C
Co-Investigators: Benson BW, Goulet C, **Hagel BE**, Meeuwisse WH, Shrier I
Project Title: The Risk of Injury associated with Body Checking among Pediatric Ice Hockey Players
Amount: \$449,852 (yr1: \$229,026, yr2: \$220,826)
- 02/07 Funded by Alberta Heritage Foundation for Medical Research Conference
Awarded to: **Hagel BE**
Project Title: 13th Annual Child Health Research Symposium: Injury Prevention in Children and Adolescents
Amount: \$5,000
- 04/06 – 03/07 Funded by Canadian Institutes of Health Research Team Planning and Development Grant
Toward Enhanced Quality of Life through Injury Prevention, Acute Response and Rehabilitation
Principal Investigator: Voaklander D
Co-Investigators: Kelly K, Prkachin K, Rosychuk R, Dryden D, **Hagel BE**, Rowe B, Barr R, Cherry N, Beach J, Jones C, Fassbender K
Collaborators: Pike I, Fancescutti L, Belton K, Herman M, MacDonald N, Steeves J
Project Title: Injury Outcomes Research Centre
Amount: \$100,000
- 03/06 – 12/06 Funded by University of Calgary Starter Grant
Principal Applicant: **Hagel BE**
Co-Applicants: Goulet C, Pless IB
Collaborators: Nettel-Aguirre A
Project Title: Helmet use and neck injury risk in skiers and snowboarders
Amount: \$9,883
- 03/06 Funded by University of Calgary Travel Grant for the 8th World Conference on Injury Prevention and Safety Promotion
Durban, South Africa, April 2nd to 5th, 2006
Principal Applicant: **Hagel BE**
Amount: \$1,500
- 11/05 – 11/08 Funded by Alberta Heritage Foundation for Medical Research Health Research Fund
Principal Applicant: **Hagel BE**
Co-Applicants: Rowe BH, Cherry N, Jhangri G, Belton K, Dorey A
Project Title: The effect of bike helmet legislation on helmet use, head injuries and cycling habits
Amount: \$49,881 (year 1); \$47,680 (year 2)

02/04 – 11/04 Funded by Canadian Institutes of Health Research Planning and Development Grant
Principal Applicants: Meeuwisse WH, Emery CA, Rose SM, Hiemstra L
Co-Applicants: **Hagel BE**, Zernike R, Ronsky J, Nigg B, Butterwick DJ, Ferber R, Mohtadi NGH
Project Title: Building a multi-disciplinary team in adolescent sport injury prevention
Amount: \$98,805

10/01 – 09/02 Funded by Canadian Institutes of Health Research Operating Grant
Principal Investigator: Pless IB
Co-Investigators: Platt RW, Goulet C, Robitaille Y
Associate Investigator: **Hagel BE**
Project Title: Helmet Effectiveness in Skiers and Snowboarders
Amount: \$93,620

Non-Refereed Grants/Contracts

11/10 – 11/15 Alberta Children's Hospital Foundation Professorship in Child Health and Wellness
Principal Applicant: **Hagel BE**
Amount: \$75,000 per year for 5 years

05/08 – 12/08 Funded by Public Health Agency of Canada
Canadian Hospitals Injury Reporting and Prevention Program (CHIRPP)
Co-Principal Investigators: Belanger F, **Hagel BE**
Co-Investigators: Thakore S, Kyle S, Tram J, Senger T
Project Title: Injuries caused by nonmotorized wheeled equipment presenting to the Alberta Children's Hospital emergency department
Amount: \$4,000

05/07 – 11/08 Funded by Stollery Children's Hospital Foundation and Alberta Occupant Restraint Program (AORP)
Principal Applicant: Voaklander D
Co-Applicants: Golonka R, **Hagel BE**, Rothe P, Belton K, Rowe BH
Project Title: Patterns of child passenger restraint use among Alberta school children under the age of 13
Amount: \$35,000 (Stollery Children's Hospital); \$35,000 (AORP)

11/05-11/10 Alberta Children's Hospital Foundation Professorship in Child Health and Wellness
Principal Applicant: **Hagel BE**
Amount: \$75,000 per year for 5 years

04/05 – 12/05 Funded by Capital Health Authority, Edmonton, AB
Principal Applicant: Rowe BH

Co-Applicants: **Hagel BE**, Dryden D

Project Title: Body checking in minor hockey: an analysis of injuries treated in emergency departments of the Capital Health region

Amount: \$12,650

VIIIa. SUBMITTED FUNDING APPLICATIONS

03/15 Funding Agency: Canadian Institutes of Health Research Open Operating Grant
Principal Applicant: **Hagel BE**
Co-Applicants: Emery CA, Howard A, McCormack G, Nettel-Aguirre A, Rowe BH, Russell K, Teschke K, Verhagen E, Winters M, Fuselli P, Voaklander D, Belton K, Dixon A, Doan Q
Project Title: The Bicycling Injuries in Kids and the Environment (BIKE) Study
Amount: \$946,228

IX. INVITED ADDRESSES

- 10/14 **Evaluation of Protective Equipment Use in Youth Sport & Recreational Activities.** Paediatric Orthopaedic Seminar and Townsend Lecture, Cumming School of Medicine, University of Calgary
- 10/14 **Child and Adolescent Injury Prevention: Challenges and Opportunities.** Paediatric Orthopaedic Seminar and Townsend Lecture, Cumming School of Medicine, University of Calgary
- 01/14 **Child & Adolescent Injury Prevention: Opportunities & Challenges.** Department of Community Health Sciences Population Health & Inequities Seminar, January 31st, 2014.
- 10/13 **Child and Adolescent Injury Prevention.** St. Elizabeth Steton School P.H.A.T. (Positive Healthy and Active Today) Fair, October 25th, 2013.
- 11/13 **Prevention of alpine skiing and snowboarding injuries in Québec: strategies based on epidemiology research. Session: How Can Injury Epidemiology Research Support Injury Prevention Strategy Implementation in Sport and Physical Activity? Session co-presenters: Drs. Claude Goulet and Alison Macpherson**
Canadian Conference on Injury Prevention and Safety Promotion in Montreal QC, November, 2013.
- 11/13 **Injury Research Methodology Course: Non-Experimental Injury Research: Concepts and Approaches.** Montreal, QC, November 4th, 2013
- 08/12 **Injury Surveillance. Session in “Introduction to Public Health Surveillance”.** University of Alberta School of Public Health, Edmonton, AB, August 29th, 2012

- 04/12 **Child and Adolescent Injury Prevention. Thinking Outside the Sandbox:** Innovation in Action at the Alberta Children's Hospital. Alberta Children's Hospital Foundation Donor Event, April, 2012
- 11/11 **Helmet Effectiveness in Skiers & Snowboarders.** Canadian Institutes of Health Research Café Scientifique: Protect your Melon: Snow Sport Helmets – Round Two. Vancouver, BC, November, 2011.
- 11/11 **Evidence for Risk Compensation In Youth Sport and Recreation - Helmet Use in Bicycling and Skiing-Snowboarding. Session: Injury Prevention in Child and Adolescent Sport. Session co-presenters: Drs. Carolyn Emery, Claude Goulet, Alison Macpherson, Barbara Morrongiello, Katherine Steffen**
Canadian Conference on Injury Prevention and Safety Promotion, Vancouver, BC, November, 2011.
- 06/11 **Your Research Plans: Mastering the Transition from Trainee to Principal Investigator.** 2011 Canadian Child Health Clinician Scientist Program (CCHCSP) Western Canada Mini-Symposium, Banff, Alberta.
- 06/11 **Cycling Injury Risk Factor Study.** University of Alberta Injury Research Symposium. Edmonton, Alberta.
- 04/11 **Evidence for Risk Compensation in Youth Sport and Recreation: Helmet Use in Bicycling and Skiing-Snowboarding.** Session: Injury Prevention in Child and Adolescent Sport. IOC World Conference on Prevention of Injury & Illness in Sport. Monte-Carlo, Principality of Monaco, April, 2011
- 12/10 **Child and Adolescent Injury Prevention: Challenges and Opportunities**
Paediatric Grand Rounds, Alberta Children's Hospital, University of Calgary, Calgary, Alberta
- 06/10 **Helmet Effectiveness in Skiers and Snowboarders: Building the Evidence Picture**
Festschrift Scientific Session to Honour Dr. I. Barry Pless, Montreal Children's Hospital, McGill University, Montreal, Quebec
- 01/10 **An Academic Perspective of Winter Sports Injuries: Sports and recreation injuries in children and youth**
BC Injury Prevention Leadership and Action Network (BCIPlan)
- 06/09 **Side effects of protective equipment in sport: where should the evidence lead us?**

Canadian Sport Injury Prevention Symposium, Vancouver, Canada

- 06/08 **Injury Prevention in Child and Adolescent Skiing and Snowboarding**
2nd World Congress on Sports Injury Prevention, Tromso, Norway, June
26-28, 2008
- 06/08 **An Epidemiologic Perspective on Selection of Controls for Etiologic
Studies of Protective Equipment Use in the Sport and Recreation
Context: Session: Adjustment for exposure to injury risks:
considerations in the selection of controls, biomechanists vs.
epidemiologists. Session co-presenters: Drs. Karim Kahn, Andrew
McIntosh, David Lloyd, Colin Fuller**
2nd World Congress on Sports Injury Prevention, Tromso, Norway, June
26-28, 2008
- 06/08 **Does The Use Of Protective Equipment Cause Injuries in Sport and
Recreation Activities by Increasing Risk Taking Behaviour? Session:
Behaviour and Sports Injuries. Session co-presenters: Dr. Evert
Verhagen, Barbara Morrongiello, Carly McKay, Dorine Collard**
2nd World Congress on Sports Injury Prevention, Tromso, Norway, June
26-28, 2008
- 05/08 **Does Visibility Influence the risk of injury in cyclists?**
Emergency Medicine Research Day, Calgary, Alberta
- 04/08 **Considerations in the evaluation of protective equipment use in sport
and recreation activities: risk compensation and injury profile**
Sport Injury Prevention Research Centre Symposium, Calgary, Alberta
- 04/08 **The influence of protective equipment in sport and recreation
activities: bicycle helmet use and legislation**
Calgary Injury Prevention Coalition Annual Symposium
Exploring Youth Risk Taking: Balancing Protection and Choice
- 03/08 **Considerations in the evaluation of protective equipment use in sport
and recreation activities: risk compensation and injury profile.
Session: Sports Injuries: Challenges for research and action. Session
co-presenters: Drs. Caroline Finch, Toomas Timpka, Claude Goulet**
9th World Conference on Injury Prevention and Safety Promotion, Merida,
Mexico, March 15-18, 2008
Session: Sports Injuries: Challenges for Research and Action
- 11/07 **The role of scientific evidence in forming policy**
Canadian Injury Prevention and Safety Promotion Conference, Toronto,
ON, November 11-13, 2007
Plenary Session: Building the Evidence Picture: The Value of Different

Kinds of Evidence

- 11/07 **Examples of the use of Canadian data in assessing head injury burden in sport and recreation**
ThinkFirst Canada Summit on Head Protection
Session: Measuring the Incidence and Prevalence of Head Injuries in Canada
- 10/07 **Measures of disease frequency and diagnostic tests**
Medical Genetics Core Month
Department of Pediatrics, University of Calgary, Calgary, AB
- 06/07 **The effect of helmet use and legislation in recreational activities**
Alberta Centre for Injury Control & Research monthly teleconference
- 11/06 **The reasons for and against helmet use in recreational activities: what to tell your patients and their parents**
McCutcheon Lecture on Injury Prevention
Toronto Hospital for Sick Children, University of Toronto
Toronto, ON
- 09/05 **Helmet effectiveness in skiers and snowboarders**
Community Health Sciences Seminar Series
Faculty of Medicine University of Calgary
Calgary, AB, September 30, 2005
- 07/05 **The effect of a recently introduced policy of mandatory helmet use in terrain parks at 2 Edmonton ski areas on trends in severe injuries and participation**
Sport Injury Prevention Conference
Sport Medicine Centre, Faculty of Kinesiology, University of Calgary
Calgary, AB, July 6, 2005
- 02/05 **Cyclist safety: visibility and post-legislation helmet use**
Child Health Research Group Rounds, Department of Paediatrics
Faculty of Medicine, University of Calgary
Calgary, AB, February 3, 2005
- 02/04 **Skiing and Snowboarding Injuries in Children and Adolescents**
Alberta Centre for Injury Control & Research monthly teleconference
- 02/04 **Helmet Effectiveness in Skiers and Snowboarders**
Alberta Children's Hospital Child Health Research Rounds
Calgary, AB

- 06/03 **Helmet Effectiveness in Skiers and Snowboarders**
 Congr s annuel de l'Association des stations de ski du Qu bec et Salon
 Commercial
- 04/03 **Helmet Effectiveness in Skiers and Snowboarders**
 University of British Columbia, Centre for Community Child Health
 Research, British Columbia Injury Research and Prevention Unit
- 04/03 **Helmet Effectiveness in Skiers and Snowboarders**
 University of Alberta, Department of Public Health Sciences Grand
 Rounds
 Edmonton, AB

X. PUBLICATIONS/PRESENTATIONS

Peer reviewed manuscripts

1. **Hagel BE**, Romanow NT, Enns N, Williamson J, Rowe BH. Severe bicycling injury risk factors in children and adolescents: A case-control study. *Accident Analysis & Prevention* 2015;78:165-172
2. Thompson GC, Schuh S, Gravel J, Reid S, Fitzpatrick E, Turner T, Bhatt M, Beer D, Blair G, Eccles R, Jones S, Kilgar J, Liston N, Martin J, **Hagel B**, Nettel-Aguirre A. Variations in the diagnosis and management of appendicitis at Canadian pediatric hospitals. *Academic Emergency Medicine* 2015 Jul;22(7):811-22. doi: 10.1111/acem.12709. Epub 2015 Jun 30.
3. Graves JM, Whitehill JM, **Hagel BE**, Rivara FP. The use of narrative text emergency department injury surveillance data to conduct case-control studies of helmet effectiveness. *Injury* 2015 May;46(5):891-7. doi: 10.1016/j.injury.2014.11.012. Epub 2014 Nov 26
4. Ebel B, **Hagel BE**. Building the Evidence Base for Safe and Active Bicycling: A Historical Commentary on Rivara et al: Epidemiology of Bicycle Injuries and Risk Factors for Serious Injury. *Injury Prevention* 2015;21(1):52 doi:10.1136/injuryprev-2014-041516
5. Russell K, Meeuwisse WH, Nettel-Aguirre A, Emery CA, Gushue S, Wishart J, Romanow N, Rowe BH, Goulet C, **Hagel BE**. Listening to a personal music player and odds of injury among snowboarders in a terrain park: a case-control study. *British Journal of Sports Medicine* 2015;49:1 62-66 Published Online First: 8 July 2014 doi:10.1136/bjsports-2014-093487
6. **Hagel BE**, Romanow NTR, Morgunov N, Embree T, Couperthwaite AB, Voaklander D, Rowe BH. Do visibility aids reduce the risk of motor-vehicle collision or hospitalization in bicyclists? *Accident Analysis & Prevention* 2014;65:85-96.

7. Romanow NTR, **Hagel BE**, Williamson J, Rowe BH. Bicyclist head and facial injury risk in relation to helmet fit: a case-control study. *Chronic Diseases and Injuries in Canada* 2014;34(1):1-7.
8. Russell K, Meeuwisse WH; Nettel-Aguirre A, Emery CA, Wishart J, Romanow N, Rowe BH, Goulet C, **Hagel BE**. Feature-specific terrain park injury risk in snowboarders: a case-control study. *British Journal of Sports Medicine* 2014;48:23-28 doi:10.1136/bjsports-2012-091912
9. **Hagel BE**, Yanchar NL. Bicycle helmet legislation to increase helmet use and reduce head injury risk. Position Statement submitted to the Canadian Paediatric Society Injury Prevention Committee: *Paediatrics & Child Health*, November 2013; 18(9): 475-486.
10. Russell K, Meeuwisse WH, Nettel-Aguirre A, Emery CA, Wishart J, Ruest N, Rowe BH, Goulet C, **Hagel BE**. Comparing the characteristics of snowboarders injured in a terrain park who present to the ski patrol, the emergency department or both. *International Journal of Injury Control and Safety Promotion*, 2013; 21(3):244-51. doi: 10.1080/17457300.2013.812665
11. Karkhaneh M, Rowe BH, Saunders D, Voaklander D, **Hagel BE**. Trends in head injuries associated with mandatory bicycle helmet legislation targeting children and adolescents. *Accident Analysis & Prevention*, 2013;59: 206-212.
12. Decloe M, Emery CA, **Hagel BE**, Meeuwisse WH. Injury rates, types, mechanisms and risk factors of injury in female youth ice hockey. *British Journal of Sports Medicine*. bjsports-2012-091653 Published Online First: 27 February 2013 doi:10.1136/bjsports-2012-091653
13. Romanow NTR, Couperthwaite A, McCormack GR, Nettel-Aguirre A, Rowe BH, **Hagel BE**. Assessing inter-rater agreement of environmental audit data in a matched case-control study on bicycling injuries. *Injury Prevention* 2013;19:5 336-341 doi:10.1136/injuryprev-2012-040500
14. Romanow NTR, **Hagel BE**, Nguyen M, Embree T, Rowe BH. Mountain bike terrain park injuries: an emerging cause of morbidity. *International Journal of Injury Control and Safety Promotion*. DOI:10.1080/17457300.2012.749918
15. Russell K, Meeuwisse WH; Nettel-Aguirre A, Emery CA, Wishart J, Romanow N, Rowe BH, Goulet C, **Hagel BE**. Characteristics of injuries sustained by snowboarders in a terrain park. *Clinical Journal of Sport Medicine* May 2013;23(3):p 172–177
16. Romanow NTR, Couperthwaite A, McCormack GR, Nettel-Aguirre A, Rowe BH, **Hagel BE**. Environmental determinants of bicycling injuries. *Journal of*

Environmental and Public Health, Volume 2012, Article ID 487681, 12 pages;
doi:10.1155/2012/487681

17. Morrongiello BA, Sandomierski M, **Hagel BE**, Schwebel DC. Are parents just treading water? The impact of participation in swim lessons on parents' judgments of children's drowning risk, swimming ability, and supervision needs. *Accident Analysis & Prevention* 2013 Jan;50:1169-75. doi: 10.1016/j.aap.2012.09.008. Epub 2012 Oct 6.
18. Blake T, **Hagel BE**, Emery CA. Sport Medicine Journal Club: "Does Intentional or Unintentional Contact in Youth Ice Hockey Result in More Injuries?" [Commentary] *Clinical Journal of Sport Medicine* 2012;22(4): 377-378.
19. Branson LJ, Latter J, Currie G, Nettel-Aguirre A, Embree T, **Hagel BE**. The effect of surfacing and season on playground injury rates. *Paediatrics & Child Health* 2012;17(9) 485-489.
20. Kang J, **Hagel BE**, Emery CA, Meeuwisse W, Senger T. Assessing the representativeness of Canadian Hospitals Injury Reporting and Prevention Program (CHIRPP) sport and recreational injury data in Calgary, Canada. *International Journal of Injury Control and Safety Promotion*. Available online: 27 Feb 2012, DOI:10.1080/17457300.2012.656315
21. Blanchard I, Doig CJ, **Hagel BE**, Anton AR, Zygun DA, Kortbeek JB, Powell DG, Williamson TS, Fick GH, Innes GD. Emergency Medical Services Response Time and Mortality in an Urban Setting. *Prehospital Emergency Care* 2012;1(Jan/March):1-10. Posted online on 25 Oct 2011: doi: 10.3109/10903127.2011.614046
22. Karkhaneh M, **Hagel BE**, Couperthwaite A, Saunders D, Voaklander DC, Rowe BH. Emergency department coding of bicycle and pedestrian injuries during the transition from ICD-9 to ICD-10. *Injury Prevention* 2012 Apr;18(2):88-93. Epub 2011 Jun 24.
23. Emery CA, Kang J, Goulet C, Shrier I, **Hagel BE**, Benson B, Nettel-Aguirre A, Hamilton G, Meeuwisse WH. The risk of injury associated with body checking experience in youth ice hockey players. *Canadian Medical Association Journal* 2011;183:1249-1256. Published online ahead of print June 20, 2011. DOI:10.1503/cmaj.101540
24. Pless IB, **Hagel BE**, Zhang X, Magdalinos H. Different approaches to obtaining consent for follow-up result in biased samples. *Injury Prevention* 2011;17(3):195-200: doi:10.1136/ip.2010.029652

25. **Hagel BE**. Emergency department injury surveillance and etiological research: Bridging the gap with the two stage case-control study design. *Injury Prevention* 2011;17(2):114-118
26. Karkhaneh M, Rowe BH, Saunders D, Voaklander D, **Hagel BE**. Bicycle helmet use four years after the introduction of helmet legislation in an urban community in Alberta, Canada. *Canadian Journal of Public Health* 2011;102(2):134-38.
27. Karkhaneh M, Rowe BH, Saunders D, Voaklander D, **Hagel BE**. Bicycle helmet use four years after the introduction of helmet legislation in Alberta, Canada. *Accident Analysis & Prevention* May 2011;43(3): 788-796
28. Sole A, Emery CA, **Hagel BE**, Morrongiello B. Risk taking in avalanche terrain: A study of the human factor contribution. *Clinical Journal of Sport Medicine* 2010;20(6):445-451.
29. Emery CA, Kang J, Goulet C, Shrier I, **Hagel BE**, Benson B, Nettel-Aguirre A, Hamilton G, Meeuwisse WH. The risk of injury associated with body checking among pediatric ice hockey players. *Journal of the American Medical Association*, 2010; 303(22): 2265-2272.
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71. **Hagel BE**, Ploeg E, Estabrooks P, Engsberg J. Range of motion of the ankle joint complex in normal and overpronating runners. Proceedings of NACOB II, The Second North American Congress on Biomechanics, Chicago, 1992. p. 237.
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73. Engsberg J, Lee A, **Hagel BE**, Harder J. External loading for below-knee-amputee and able-bodied children during running. Proceedings of NACOB II, The Second North American Congress on Biomechanics, Chicago, 1992. p. 397-398.

Published communications

1. Dryden D, Rowe BH, **Hagel BE**, Marko J. Body checking in youth hockey is dangerous (Letter). *Medicine and Science in Sports and Exercise* 2006, 38(4):799.
2. Kulaga S, **Hagel BE**, Brogly S, Momoli F. Epidemiology Research. (Letter) *Lancet* 2002;360: 259-260
3. **Hagel BE**, Pless IB, Hanley JA. RE: "Upper extremity snowboarding injuries: ten-year results from the Colorado Snowboard Injury Survey." (Letter) *American Journal of Sports Medicine* 2001;29(5):676-677.
4. **Hagel BE**, Boivin J-F. RE: "Population preventable fraction of bicycle related head injuries." (Letter) *Injury Prevention* 2001;7(1):78.

Oral Presentations

- 11/13 **Risk factors for severe bicycle-related injuries in children and adolescents.** Canadian Conference on Injury Prevention and Safety Promotion in Montreal. Accepted: June 2013. Available at: <http://www.injurypreventionconference.ca/presentations/children-and-motor-vehicle-safety/>

- 10/12 **Do visibility aids reduce the risk of motor-vehicle injury in bicyclists?**
World Conference on Injury Prevention and Safety Promotion
Wellington, New Zealand, October 2nd, 2012.
- 11/11 **Do Visibility Aids Reduce the Risk of Injury in Bicyclists?** Canadian
Conference on Injury Prevention and Safety Promotion, Vancouver, BC,
November, 2011
- 05/08 **Does visibility influence the risk of injury in cyclists?**
Emergency Medicine Research Day, University of Calgary
Calgary, Alberta, Canada, May, 2008
- 02/07 **Sport and recreational injuries in children and youth**
13th Annual Child Health Research Symposium Paediatric Research Day
Department of Paediatrics, Faculty of Medicine, University of Calgary
Calgary, Alberta, Canada, February 8th, 2007
- 04/06 **The effect of body checking on the injury rates of 11-year old ice
hockey players**
8th World Conference on Injury Prevention and Safety Promotion
Durban, South Africa, April 2-5, 2006.
Nominated: Best oral presentation
- 04/06 **Changes in cyclist helmet wearing following the introduction of
helmet legislation in Alberta for those under age 18**
8th World Conference on Injury Prevention and Safety Promotion
Durban, South Africa, April 2-5, 2006.
- 04/05 **Trends in bicycle helmet use associated with helmet legislation in
Alberta**
Department of Public Health Sciences Annual Research Day
Faculty of Medicine, University of Alberta , April 28, 2005
- 06/04 **Helmet effectiveness in skiers and snowboarders**
7th World Conference on Injury Prevention and Safety Promotion
June 6-9, 2004.
Winner: Best Oral Presentation
- 11/03 **Helmet effectiveness in skiers and snowboarders**
Canadian Injury Prevention and Safety Promotion Conference
- 05/03 **Helmet effectiveness in skiers and snowboarders**
Montreal Children's Hospital Research Institute – Annual Research Day
Winner: Best presentation: Clinical Research Category

- 05/02 **The rising proportion of head and neck injuries among skiers and snowboarders**
6th World Conference on Injury Prevention and Control
- 05/02 **Estimated trends in ski patrol reported body region specific injury rates for skiers and snowboarders in Quebec**
6th World Conference on Injury Prevention and Control
- 11/98 **Skiing and snowboarding injuries in southern Alberta youth**
Canadian Society for Epidemiology and Biostatistics Student Meeting
- 11/98 **Skiing and snowboarding injuries in southern Alberta youth**
Canada West Ski Areas Association Risk Management Seminar
- 04/98 **Risk factor analysis of skiing and snowboarding injuries in southern Alberta youth**
3rd Annual Child Health Research Symposium
- 02/97 **Facial and dental injury in Canadian inter-collegiate ice hockey**
27th Annual Symposium of the Canadian Academy of Sport Medicine
- 10/96 **Risk factors for skiing and snowboarding injury in southern Alberta youth**
Canada West Ski Areas Association Risk Management Seminar

Poster Presentations

- 11/12 Karkhaneh M, Rowe BH, Saunders D, Voaklander D, **Hagel BE**. Trends in head injuries associated with mandatory bicycle helmet legislation targeting children and adolescents. Accepted for the 2011 Canadian Conference on Injury Prevention and Safety Promotion, Vancouver, BC.
- 06/07 **Effectiveness of bicycle helmet legislation to increase helmet use: a systematic review**
11th International Conference on Emergency Medicine, Halifax, NS, Canada, June 3-7, 2006. Karkhaneh M, Kalenga JC, **Hagel BE**, Rowe BH. CJEM 2006; 8:188
- 06/07 **Epidemiology of bicycle injuries in 13 health divisions, Islamic Republic of Iran 2003**
11th International Conference on Emergency Medicine, Halifax, NS, Canada, June 3-7, 2006. Karkhaneh M, Naghavi M, Rowe BH, **Hagel BE**, Jaffari N, Saunders LD. CJEM 2006; 8:188
- 02/07 **Neck injury risk and helmet use in skiers and snowboarders**
13th Annual Child Health Research Symposium Paediatric Research Day
Department of Paediatrics, Faculty of Medicine, University of Calgary

February 8th, 2007

Awarded Second place: Poster Presentations

- 04/06 **The effect of body checking on the injury profile of 11-year old ice hockey players**
8th World Conference on Injury Prevention and Safety Promotion,
Durban, South Africa, April 2-5, 2006
Nominated: Best poster presentation
- 04/06 **Self-reported skill level and injury severity in skiers and snowboarders**
8th World Conference on Injury Prevention and Safety Promotion
Durban, South Africa, April 2-5, 2006
Nominated: Best poster presentation
- 04/06 **Visibility aid use among cyclists and pedestrians**
8th World Conference on Injury Prevention and Safety Promotion
Durban, South Africa, April 2-5, 2006
- 11/05 **The Effect of Body Checking on Injury Rates of 11-year-old Hockey Players**
Institute of Maternal and Child Health Annual Research Day
November 17, 2005
- 10/04 **Reflective clothing use among cyclists and pedestrians: a pilot study**
Injury in Alberta XI - Making In-Roads: Partnership, knowledge and tools
for traffic safety. October 3-5, 2004
- 10/04 **Effects of a Collaborative Approach to Increasing Seatbelt Use: An Alberta Example**
Injury in Alberta XI - Making In-Roads: Partnership, knowledge and tools
for traffic safety. October 3-5, 2004
- 06/04 **Testing the risk compensation hypothesis: helmet use in skiing and snowboarding**
7th World Conference on Injury Prevention and Safety Promotion
June 6-9, 2004.
Nominated: Best Poster Presentation
- 11/03 **Testing the risk compensation hypothesis: helmet use in skiing and snowboarding**
Canadian Injury Prevention and Safety Promotion Conference
- 05/02 **Agreement between ski patrol and mail questionnaire-telephone interview reported risk factor information**

- 6th World Conference on Injury Prevention and Control
- 05/02 **Injury risk in men's Canada west university football**
6th World Conference on Injury Prevention and Control
- 10/00 **Injury epidemiology and the case-crossover design**
Canadian Conference on Injury Prevention and Control
- 03/99 **The distribution and determinants of injury in men's Canada west
university football**
29th Annual Symposium of the Canadian Academy of Sport Medicine
- 03/99 **Skiing and snowboarding injuries in southern Alberta**
29th Annual Symposium of the Canadian Academy of Sport Medicine