



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

Curriculum Vitae

March 2018

I. BIOGRAPHICAL DATA

ALBERTO NETTEL - AGUIRRE

Associate Professor
Departments of Paediatrics and Community Health Sciences
Cumming School of Medicine,
Adjunct Professor
Faculty of Kinesiology,
University of Calgary
Alberta Children's Hospital
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Calgary, Alberta T3B 6A8
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II. ACADEMIC RECORD

Professional Statistician Certification
06/07

Awarded Professional Statistician Designation Number 099
Statistical Society of Canada

Post-Doctoral Fellow, Statistical Learning and Data Mining
01/05 – 12/05

Project: Dynamic graph data, review and development of probabilistic models for graph data and social networks, Dr. Hugh Chipman, Supervisor.
Acadia University, Wolfville, Nova Scotia

PhD in Statistics
09/99 – 05/05

Thesis: Nuclei Shape analysis, a statistical approach, Dr. Peter Ehlers, Supervisor
University of Calgary, Calgary, Alberta

MSc in Statistics

09/97 – 08/99

Dr. Peter Ehlers, Supervisor

University of Calgary, Calgary, Alberta

BSc Applied Mathematics

08/90 – 12/94

Thesis: Ranking Methods, Dr. Carlos Bosch, Supervisor

Instituto Tecnológico Autónomo de México, México D.F., México

OTHER ACADEMIC DEVELOPMENT

45th annual meeting of the Statistical Society of Canada

06/2017

University of Manitoba, Winnipeg, Manitoba

Workshop: Handling Missing Data in R with MICE

Instructor: Stef van Buuren

45th annual meeting of the Statistical Society of Canada

06/2017

University of Manitoba, Winnipeg, Manitoba

Course: Formative Feedback for Teaching Development

Taylor Institute for Teaching and Learning

Instructors: Cheryl Jeffs, EdD and Ykje Piera, MEDES

01/2017

University of Calgary, Calgary, Alberta

50th Anniversary Celebration Injury Prevention Research Workshop

Faculty of Kinesiology, joint with Bath University UK

06/2016

University of Calgary, Calgary, Alberta

Introduction to Causal Inference: Philosophy, Framework & Key Methods

Organized by O'Brien Institute for Public Health Instructor Erica Moodie (attended online)

Theatre 4, Health Sciences Centre

06/2016

University of Calgary, Foothills Campus, Calgary, Alberta

44th annual meeting of the Statistical Society of Canada
05/2016
Brock University, St. Catharines, Ontario

Workshop on Categorical Data Analysis
Imparted by Christopher R. Bilder, Nebraska Lincoln, Thomas M. Loughin, Simon Fraser
University
44th annual meeting of the Statistical Society of Canada
05/2016
Brock University, St. Catharines, Ontario

American Statistical Association Conference on Statistical Practice
02/2016
Westin San Diego, San Diego, California

MISSING DATA: Beyond Star Trek, The Next Generation, missing data workshop, Instructors:
Don McLeish & Cynthia Struthers, University of Waterloo
12/2015
Sponsored by O'Brien Institute for Public Health

Advanced Meta analysis implementation in Stata, Dr. Patrick Taffé
09/2015
O'Brien Institute for Public Health, University of Calgary

43rd Annual Meeting of the Statistical Society of Canada
06/2015
Dalhousie University, Halifax, Nova Scotia

CAREB (Canadian Association of Research Ethics Boards) 2014 National Conference and
Annual General Meeting
04/2014
The Queen Elizabeth Fairmont, Montreal, Quebec

How to be a better supervisor, Hugh Kearns
03/2014
My Gradskills University of Calgary

Statistical Society of Canada 2014 Annual Meeting
05/2014
University of Toronto, Toronto, Ontario

Network Analysis: A Second Course (Wasserman). Inter-university Consortium for Political and Social Research

06/2013

University of Michigan

41st Annual Meeting of the Statistical Society of Canada

05/2013

University of Alberta, Edmonton, Alberta

40th Annual Meeting of the Statistical Society of Canada

06/2012

University of Guelph, Guelph, Ontario

Frontiers in Networks: Models and Applications

06/2012

8th Guelph Biomathematics & Biostatistics Symposium, Fields Institute

University of Guelph, Guelph, Ontario

The Analysis of Longitudinal Social Network Data using SIENA-Parts 1&2, Sunbelt 2010, International Network for Social Network Analysis

06/2010

Riva del Garda, Italy

Using Data to Predict the Future, The Calgary Institute for Population and Public Health and the Institute of Health Economics,

03/2010

Banff Conference Centre, Banff, Alberta

From Discovery to Therapy: Modern Genetics in Action, Sixteenth Annual Child Health Research Symposium

03/2010

Alberta Children's Hospital, Calgary, Alberta

Sunbelt 2009, International Network for Social Network Analysis

03/2009

Bahia Hotel, Mission Beach, San Diego

Preterm Infants: School Age and Beyond, Fifteenth Annual Child Health Research Symposium

03/2009

Alberta Children's Hospital, Calgary, Alberta

Advanced Meta-analysis Workshop a likelihood approach, Kidney Health Research Group,

07/2008

University of Alberta, Edmonton, Alberta

13th Annual Health Research Methods Course
05/2008
University of Calgary, Calgary, Alberta

NPCDS/PIMS Methodological Needs and Desires in Public and Population Health Research
Workshop
04/2008
University of British Columbia, Vancouver, British Columbia

NPCDS/PIMS Understanding and Managing mismeasured Variables in Biostatistical Analysis
Short Course
04/2008
University of British Columbia, Vancouver, British Columbia

PHIRC Social Network Analysis
07/2007
University of Calgary, Calgary, Alberta

PIMS Alberta Cancer Board/ U of C Statistical Genomics Workshop
06/2007
University of Calgary, Calgary, Alberta

MDSC 659.02 Health Research Methods (audited, course enrolment)
01/2007
University of Calgary, Calgary, Alberta

MDSC 647.01 Fundamentals of Epidemiology (audited, course enrolment)
09/2006
University of Calgary, Calgary, Alberta

NPCDS Statistical and Machine learning spring school
05/2006
Centre de recherche mathématiques
Université de Montréal, Montréal, Québec

NPCDS Workshop on Data Mining
11/2005
Fields Institute, Toronto, Ontario

Fields Institute's Workshop on the Geometry of Very Large Data Sets
02/2005
Ottawa University, Ottawa, Ontario

Data Mining Research Group member
 01/2005 – 12/2007
 Acadia University, Wolfville, Nova Scotia

PIMS-MITACS-MSRI Special Program on Infectious Diseases Summer School
 06/2004
 Banff International Research Station, Banff, Alberta

Analysis of Microarray Data using Splus, R and S+ArrayAnalyser Course
 10/2003
 Las Vegas, Nevada, USA

First Canadian Workshop on Statistical Genomics
 08/2003
 Fields Institute, Toronto, Ontario

III. AWARDS AND DISTINCTIONS

- | | |
|---------------|--|
| 09/08 | MITACS Workshop: Mathematical Modeling of Human Metabolism & Body Weight Regulation
Bethesda, Maryland, USA
Travel Grant
Amount: \$1,202.48 |
| 08/07 | The Child Health Research Group Travel Grant
12th International Congress for Stereology, Saint-Etienne, France
Oral Presentation: “Nuclei Shape Analysis, A statistical approach”
Amount: \$1,500 |
| 06/07 | Professional Statistician Certification
Professional Statistician number 099 and seal awarded
Statistical Society of Canada |
| 05/05 | MITACS 6th annual meeting, Calgary, Alberta
Poster: “Nuclei Shape Analysis”
Winner: 2nd Prize Best Poster Presentation |
| 10/04 | Graduate studentship
Workshop on Data Mining Methodology and Applications
Fields Institute, Toronto, Ontario
Travel and registration costs |
| 08/04 – 12/04 | Research/Consulting Funding |
| 01 – 04/04 | Consulting and Research, Statistical Consulting and Research lab |
| 05 – 08/02 | Mathematics and Statistics Department, U of C, Undisclosed |
| 06/04 – 07/04 | Graduate studentship
MITACS–MSRI–PIMS Special Program on Infectious Diseases
MITACS-PIMS. Covered transportation, accommodation, meals and summer school |

	Travel and registration costs
09/03	Graduate studentship, Workshop on Statistical Genomics Fields Institute Travel and registration costs
09/03 – 12/05	Graduate Assistantship in Teaching (GAT)
08/03	Teacher Assistant, marker and ran tutorials and continuous labs for several
05 – 08/02 (1/2)	Statistics and Mathematics courses from 1st year to 3rd year, for both math and non
05 – 08/00	math majors
01 – 04/99	Mathematics and Statistics Department, University of Calgary
09 – 12/98	Amounts ranged from \$5,500 to \$6,750 each
09 – 12/02	Graduate Research Fellowship (GRS)
05 – 08/02 (1/2)	Mathematics and Statistics Department, University of Calgary
05 – 08/01	Amounts ranged from \$5,500 to \$6,750 each
05/02	Fred A. McKinnon “Excellence in teaching” Award Faculty of Graduate Studies, University of Calgary Amount: \$500
04/98	Morrison Scientific Scholarship in applied statistics Morrison Scientific Inc, Calgary, Alberta Amount: \$1,000
09/97	Faculty of Graduate Studies fee scholarship University of Calgary Amount: \$2,000

IV. ACADEMIC APPOINTMENTS

07/17 to date	Associate Professor Departments of Paediatrics and Community Health Sciences Cumming School of Medicine University of Calgary, Calgary, Alberta Research Methods Team Statistician
03/08 to 06/17	Assistant Professor Departments of Paediatrics and Community Health Sciences Cumming School of Medicine University of Calgary, Calgary, Alberta Research Methods Team Statistician
07/17 to date	Adjunct Associate Professor Faculty of Kinesiology University of Calgary, Calgary, Alberta

- 09/15 to 06/17 Adjunct Assistant Professor
Faculty of Kinesiology
University of Calgary, Calgary, Alberta
- 01/06 to 02/08 Research Associate
Statistician for the Research Methods Team
Paediatrics Department, Faculty of Medicine
University of Calgary, Calgary, Alberta

V. EDUCATIONAL ACTIVITIES

Student Supervision

- 09/17 to Date Committee Member for MSc student Anna Consoli
Dr. Gavin McCormack – Supervisor
Department of Community Health Sciences
Cumming School of Medicine, University of Calgary, Calgary
Thesis: Neighbourhood characteristics associated with initiation of, compliance, and adherence to a pedometer-based physical activity intervention
- 09/17 to Date Supervisor for MSc Clinical Epidemiology Student, Martha Baez
Community Health Sciences, Cumming School of Medicine
University of Calgary, Calgary
Project Title: TBD
- 01/17 to Date Committee Member for PhD student Daniel Wagner
Dr. Gillian Currie and Dr. Deborah Marshall – Co-Supervisors
Department of Community Health Sciences
Cumming School of Medicine, University of Calgary, Calgary
Thesis: Expanding the Notion of Benefit in Economic Evaluations: An Application of Discrete Choice Experiments to Value Information from Diagnostic Technology for Paediatric Acute Gastroenteritis
- 02/17 to Date Committee Member for PhD student Anita Brobbey
Dr. Tolulope Sajobi – Supervisor
Cumming School of Medicine, University of Calgary, Calgary
Thesis: Robust Classification Models for Multivariate Longitudinal Data
- 09/15 to Date Committee Member for MSc student Tatum Mitra
Dr. Brent Hagel and Dr. Carolyn Emery – Co-Supervisors
Faculty of Kinesiology, University of Calgary, Calgary

Tentative Thesis Title: Evaluation of a Ski and Snowboard Video for the Prevention of Injuries in School Ski and Snowboard Programs

- 09/16 to Date Committee Member for MSc student Tona Pitt
 Dr. Brent Hagel – Supervisor
 Cumming School of Medicine, University of Calgary, Calgary
 Tentative Thesis Title: Risk Factors for Paediatric Bicyclist-Motor Vehicle Collisions
- 09/15 to 04/17 Committee Member for MSc student, Shawn Dodd
 Drs. Brent Hagel and Suzanne Tough – Co-Supervisors
 Cumming School of Medicine, University of Calgary, Calgary
 Tentative Thesis Title: Predictors of motor development milestones in children
- 09/15 to Date Committee Member for MSc student, Levi Frehlich
 Dr. Gavin McCormack – Supervisor
 Cumming School of Medicine, University of Calgary, Calgary
 Tentative Thesis Title: Physical activity and neighbourhood walkability
- 09/15 to Date Committee Member for MSc student, Brenlea Farkas
 Dr. Gavin McCormack – Supervisor
 Cumming School of Medicine, University of Calgary, Calgary
 Tentative Thesis Title: Relationship Between Neighbourhood Built Environment and Neighbourhood-Based Activity
- 07/15 to Date Committee Member for PhD student, Eleanor Turyakira
 Dr. Maeve O’Beirne – Supervisor
 Cumming School of Medicine, University of Calgary, Calgary
 Tentative Thesis Title: Towards Universal Skilled Delivery Care Through Health Literary Advancement
- 09/14 to 05/15 Supervisor Bachelor’s in Health Science Honours thesis for Jay Park
 Faculty of Medicine, University of Calgary, Calgary
 Thesis: Applied Statistical Modeling in Health: Multiple Logistic Regression and Classification and Regression Trees (CART) to Predict Antibiotics and Oral Rehydration Solution (ORS) Use for Child Diarrhea.
- 06/14 to 07/14 Examiner for PhD Candidacy Exam, student Kerry James MacDonald
 Dr. Willem Henry Meeuwisse – Supervisor
 Faculty of Kinesiology, University of Calgary, Calgary
- 05/14 to 09/14 MSc Thesis Supervisory committee member for MSc student, Benjamin Tan
 Faculty of Kinesiology, University of Calgary, Calgary
 Dr. Carolyn Emery – Supervisor (Successful defense)
 Thesis: Is DCD associated with Sport and Recreational Activity (S&R) injury risk and levels of S&R participation in elementary school children?

- 05/14 Examiner for PhD candidacy exam student, Longlong Huang
 Faculty of Science, University of Calgary, Calgary
 Drs. Xuwuen Lu and Karen Kopciuk – Co-Supervisors
 Thesis: Variable Selection in Semiparametric Accelerated Failure Time Models via Regularized Smooth Rank Regression.
- 01/14 to 04/16 MSc Thesis Supervisory committee member for MSc student, Erin Hildebrandt
 Dr. Steven K. Boyd – Supervisor
 Cumming School of Medicine, University of Calgary, Calgary
 Thesis: Dose-dependent longitudinal effect of Vitamin D on bone micro-architecture as measured using 3D high-resolution peripheral quantitative computed tomography: A randomized clinical trial.
- 09/13 to 11/16 Co-Supervisor for MSc student, Kenda Swanson
 Dr. Gavin McCormack – Supervisor
 Dr. Alberto Nettel-Aguirre – Co-Supervisor
 Faculty of Medicine, University of Calgary, Calgary
 Thesis: Changes in peer friendships and physical activity among children across school-grade transition.
- 09/13 to 10/15 MSc Thesis Supervisory committee member for MSc student, Carla van den Berg
 Faculty of Kinesiology, University of Calgary, Calgary
 Dr. Patricia Doyle-Baker – Supervisor
 Thesis: What variables influence injury risk in middle school adolescents?
- 09/13 to 04/14 Co-Supervisor for Undergraduate student, Dana Swystun
 Dr. Alberto Nettel-Aguirre – Preceptor
 Dr. Gillian Currie – Co-Preceptor
 Faculty of Medicine, University of Calgary, Calgary, MDSC 408
 Thesis: Family & caregiver incurred costs between intensive management of asthma clinic & standard asthma clinic at the Alberta Children’s Hospital.
- 07/13 Examiner for PhD defense, student, Niroshan nilmin Kumara Perera Withanage
 Dr. Alexander Rosales de Leon – Supervisor (Successful defense)
 Faculty of Science, University of Calgary, Calgary
 Thesis: Methods and Applications in the Analysis of Correlated Non-Gaussian Data.
- 09/12 to 04/17 Committee Member for PhD Student, Amanda Black
 Dr. Carolyn Emery – Supervisor
 Faculty of Kinesiology, University of Calgary, Calgary
 Thesis: Prevention and management of concussions in youth ice hockey: The effect of education on knowledge, beliefs, and behaviour.

- 09/12 to 09/14 Co-Supervisor for MSc Student, Karen Kam
 Dr. Gillian Currie – Supervisor
 Cumming School of Medicine, University of Calgary, Calgary
 Thesis: A multidisciplinary clinic for children with severe problematic asthma:
 is it worth it?
- 08/12 to 09/14 Committee Member for MSc student, Jason Lee Cabaj
 Dr. James Duncan Kellner – Supervisor
 Cumming School of Medicine, University of Calgary, Calgary
 Thesis: The Influence of Childhood Conjugate Vaccine Introduction on
 Invasive Pneumococcal Disease (IPD) in Adults with Underlying
 Comorbidities.
- 01/12 to 05/14 Co-Supervisor for MSc student, Keri Jo Sawka
 Dr. Gavin McCormack – Co-Supervisor
 Faculty of Medicine, University of Calgary, Calgary
 Thesis: The Relationship Between Peer Social Networks and Obesity Risk
 Behaviors in Children and Adolescents (Successful defense)
- 09/11 to date MSc Thesis Supervisory committee member for MSc student Ken Pfister
 Dr. Brent Hagel – Supervisor
 Cumming School of Medicine, University of Calgary, Calgary
 Thesis: Ski and snowboard helmet prevalence in Southern Alberta.
- 08/11 to 02/15 Supervisory Committee member for PhD student, Andrea Soo
 Dr. Misha Eliasziw – Supervisor
 Cumming School of Medicine, University of Calgary, Calgary
 Thesis: Measure observer agreement on binary data.
- 04/11 Examiner for PhD defense, student, Tyler Williamson
 Drs. Gordon Fick and Misha Eliasziw – Co-Supervisors (Successful defense)
 Faculty of Medicine, University of Calgary, Calgary
 Thesis: Log-Binomial Models: Maximum Likelihood and Failed Convergence.
- 10/10 Examiner for MSc defense, student, Chenchen Sun
 Dr. David Scollnik – Supervisor (Successful defense)
 Faculty of Science, University of Calgary, Calgary
 Thesis: Modeling with the Composite Lognormal Pareto Models with the
 Composite Weibull-Pareto Models.
- 09/10 to 09/13 Supervisory Committee Member (09/10-12/11) and Co-supervisor for MSc
 student (01/12 to 08/13), MSc Student Helen Tam
 Dr. Neil Drummond – Supervisor (Successful defense)
 Faculty of Medicine, University of Calgary, Calgary

Thesis: A Comparative Study Of Dementia-Related Service Provision And Configuration In Canada: The Use Of A Case Study Vignette And Network Analysis In Health Services Research.

- 03/10 to 06/12 Committee Member for MSc student, Leah Ricketson
Dr. James Kellner – Supervisor (Successful defense)
Faculty of Medicine, University of Calgary, Calgary
Thesis: Factors associated with early later mortality from invasive pneumococcal infection.
- 10/09 to 07/11 Committee Member for PhD student, Sharon Zhang
Dr. Reginald Sauvé – Supervisor (withdrew from program)
Faculty of Medicine, University of Calgary, Calgary
Thesis: Effects of SES on perinatal outcomes and use of care.
- 09/09 to 09/12 Co-Supervisor for Postdoctoral Fellow, James Greenwood-Lee
Co-supervising jointly with Drs. Penny Hawe and Allan Shiell (PHIRC).
Faculty of Medicine, University of Calgary, Calgary
Thesis: Network evolution: An actor based replicator dynamic model.
- 09/09 to 06/12 Committee Member for MSc student, Nicole Ruest
Dr. Brent Hagel – Supervisor (Successful defense)
Faculty of Medicine, University of Calgary, Calgary
Thesis: The environmental determinants of cycling injuries.
- 09/09 to 05/10 Committee member for MSc student, Xiaochun Wang
Drs. Gordon Fick and Misha Eliasziw – Co-Supervisors (Successful defense)
Faculty of Medicine, University of Calgary, Calgary
Thesis: A Comparison of Two Different Logistic Regression Models for Analyzing Data from Case-Control Studies.
- 07/09 Examiner for MSc Defense student, Beilei Wu
Dr. Alexander de Leon – Supervisor (Successful defense)
Faculty of Science, University of Calgary, Calgary
Thesis: Copula-based regression models for correlated mixed discrete and continuous outcomes.
- 02/09 to 11/12 Committee Member for PhD student, Kathryn Schneider
Dr. Carolyn Emery – Supervisor (Successful defense)
Faculty of Kinesiology, University of Calgary, Calgary
Thesis: Physiotherapy treatment versus rest in adolescents with persistent symptoms of dizziness, neck pain and headaches following sport-related concussion.

- 01/08 to 03/12 Committee Member for PhD student, Sarah Richmond
Dr. Carolyn Emery – Supervisor (Successful defense)
Faculty of Kinesiology, University of Calgary, Calgary
Thesis: Examining the effectiveness of a combined obesity and sport injury prevention initiative in junior high school students; a pilot study.
- 03/07 to 07/11 Committee Member for PhD student, Kelly Russell
Dr. Brent Hagel – Supervisor (Successful defense)
Faculty of Medicine, University of Calgary, Calgary
Thesis: The relationship between injuries and terrain park equipment use among pediatric and adult snowboarders in Alberta.
- 03/07 to 07/13 Committee Member for PhD student, Katie Chaput
Dr. Suzanne Tough – Supervisor (Successful defense)
Faculty of Medicine, University of Calgary, Calgary
Thesis: The Effects of Difficulties with Breastfeeding and Associated Breastfeeding Support Services on Postpartum Mental Health.

Oral educational presentations

- 03/17 **Mirror mirror on the wall...which is the most appropriate statistical method of them all?: Correct statistical approaches for evaluating prevention strategies**
IOC World Conference on Prevention of Injury and Illness in Sport
Co-Presenter with Dr. Luz Palacios-Derflingher
Grimaldi Forum, Monaco. Invited
- 04/15 **No, no, no... It's not about Facebook; the use of Social Network Analysis in Health Research**
“Pediatrics Department Grand Rounds”
University of Calgary, Calgary, Alberta. Invited
- 06/12 **The R environment, and Career Discussion Panel**
“9th PIMS young researchers conference”
University of Calgary, Calgary, Alberta. Invited
- 12/10 **An introduction to R Environment**
For Allied Health and Research Group led by Dr. S. Leew
Alberta Health Services, Calgary, Alberta. Invited
- 12/09 **“So you think you can do linear regression?”**
Child Health Research Group Rounds, Paediatrics Department
Alberta Children’s Hospital, Calgary, Alberta. Invited
- 01/09 **Sample Size...Why all the Fuss?**
Child Health Research Group Rounds, Paediatrics Department
Alberta Children’s Hospital, Calgary, Alberta. Invited

- 11/08 **Where can statistics take you?**
University of Calgary, Mathematics and Statistics Dept Career Day
Calgary, Alberta. Invited
- 10/07 **A brief overview intro to Data Mining/Statistical Learning**
Calgary Stat/Data Research Group
Tom Baker Cancer Center, Calgary, Alberta. Invited
- 06/07 **An introduction to R Environment**
For Allied Health and Research Group led by Dr. S. Leew
Calgary Health Region, Calgary, Alberta. Invited
- 04/07 **Statistical programs for health research: what's out there?**
For Allied Health and Research Group led by Dr. S. Leew
Calgary Health Region, Calgary, Alberta. Invited
- 12/06 **Comparing your matches**
Children Health Research Group rounds, Paediatrics Department
Alberta Children's Hospital, Calgary, Alberta.
- 04/05 **A brief overview to Sweave... a document creation tool**
Data Mining Research Group meeting, Department of Mathematics and
Statistics
Acadia University, Wolfville, Nova Scotia

Other Educational Activities

- 04/15 Department of microbiology, immunology and infectious diseases Grad student
Lecture
A not so technical Intro to Stats
2 hour lecture introducing main concepts and tests in statistics and their
application.
- 03/13 MDSC 643.02
Judge for the Biostats Final presentation
- 09/12 Department of Medical Genetics Lecture introduction to biostatistics
Core Month Presentations 2012
Date of Presentation: September 25, 2012
- 09/11 – 12/11 Directed reading course on Social Network Analysis (MSc student Helen Tam)
- 2010 – to date Statistics, design and critical appraisal collaborator for Pediatric Nephrology
Journal Club
- Winter/11 MDSC 643.02
Judge for the Biostats Final presentation
- Winter/10 MDSC 643.02
Judge for the Biostats Final presentation

- Fall/09 MDSC 643.01
Judge for the Biostats Final presentation
- Fall/09 CHS Graduate Students and Faculty Rendez-Vous 2009
Volunteer faculty were matched with other faculty and Grad students to discuss research and interaction possibilities for the grad students
Department of Community Health Sciences, University of Calgary, Calgary, Alberta
- 2009 to date Canadian Child Health Scientist Program
Served as methodological resource for the group

Courses delivered

- 01/18 to 05/18 **KNES 603.38 Special Topics in Statistics for Sport Medicine (Winter Term)**
Jointly with Dr. Luz Palacios-Derflingher
- 01/17 to 05/17 **MDCH 641 Introduction to Clinical Trials**
Co-coordinator and course co-teacher for graduate course on clinical trials, delivered and updated statistical and design lectures for the course.
- 04/16 **Continuing Medical Education**
Workshop on Critical Appraisal General Principles for Reporting the Results of a Descriptive Statistical Analysis and the statistical comparison of two groups.
Cumming School of Medicine, University of Calgary, Calgary, Alberta
- 09/13 to 12/13 **KNES 609 - Statistical Techniques in Kinesiology (Fall Term)**
Jointly with Dr. Cynthia Mannion and Dr. Luz Palacios-Derflingher
- 11/06 to date **Resident Research Course (Fall Term)**
Contributed to course organization and structure, planned and delivered Biostatistics lectures. Mentored and co-directed small group assessment and review of research project proposals. Specific lectures included: introductory statistics, randomized controlled trials and diagnostic studies. Contributed to development of lectures given by Dr. Brent Hagel on study design, design and analysis of case-control studies, design and analysis of cohort studies
Alberta Children's Hospital, Calgary, Alberta
- 08/10 **Workshop for Community Based Researchers**
Workshop course held at Mbarara University of Science and Technology, Mbarara, Uganda from August 16-27, 2010. The title of the course: "Nurturing an Academic Career from Research Ideas to Finished Papers-using Micro-research". Funding Sponsors: Healthy Child Uganda and Micro-Research, IWK Health Centre. The workshop integrated lectures and daily small

multidisciplinary group interactive sessions. Each of four small groups (6-8 participants per group).

- 09/05 – 12/05 **Applied Probability for Science and Engineering (Math 2213)**
Lecturer
Department of Mathematics and Statistics
Acadia University, Wolfville, Nova Scotia
- 09/97 – 12/04 **Teacher Assistant for Mathematics & Statistics Department**
Received Fred A. McKinnon Award for "Excellence in teaching" during 2002. Connected successfully with undergraduate students from different backgrounds: nursing, kinesiology, business, etc.; in tutorials for statistics (up to 300 level) and mathematics courses (1st year calculus and calculus for engineers). **See attached Teaching Dossier for more detail**
- 01/04 – 05/04 **Introduction to Statistics II (STAT 217)**
Lecturer
Department of Mathematics and Statistics
University of Calgary, Calgary, Alberta

VI. ADMINISTRATIVE RESPONSIBILITIES

University

- 09/15 to Date ACHRI Training Executive Committee
- 11/13 – Ongoing University of Calgary Department of Pediatrics Annual Residents/Fellows Research Day (Thursday, November 14, 2013)
- 02/17, 02/13, 01/12, 05/11 University of Calgary, Department of Community Health Sciences, Admission Application Review for the Graduate Program
- 09/98 – 05/01 University of Calgary Graduate Council Representative for the Mathematics and Statistics Department

Provincial

- 09/12 – To Date Scientific reviewer for Health Research Ethics Board of Alberta (HREBA) Community Health Committee within AIHS

National

- 07/15 – 06/18 Member of Accreditation Committee of the Statistical Society of Canada.
- 07/13 – 06/18 Secretary of the Biostatistics Section of the Statistical Society of Canada.

- 09/12 to 08/16 Statistical Society of Canada Public Relations committee
- 06/10 – 06/10 Election committee member for president of the Statistical Society of Canada Biostatistics Section. June 14 – June 30, 2010.

VII. PROFESSIONAL ACTIVITIES

Membership in professional and learned societies

- 2007 to date Member of International Network of Social Network Analysis
- 2007 – 2012 Member of Canadian Society for Epidemiology & Biostatistics
- 2008 to date Member of Alberta Children’s Hospital Research Institute for Child and Maternal Health
- 2013 to date O’Brien Institute for Public Health
- 2000 – 2013 Member of International Society for Stereology
- 1998 to date Member of the Statistical Society of Canada
- 1998 – 2013 Member of Institute of Mathematical Statistics

Scientific review

- 11/17 Reviewer on the Personalized Health – predictive analytic models Peer Review Committee
- 11/17 Reviewer on the Randomized Controlled Trials 2 Peer Review Committee
- 04/17 Reviewer on the Project Grant Competition – APPCL31 – Final Assessment Stage Peer Review Committee
- 04/17 Reviewer on the Project Grant Competition – APPCL33 – Final Assessment Stage Peer Review Committee
- 02/17 Reviewer on the Project Grant Competition – Stage 1 Peer Review Committee
- 06/16 Reviewer on the Project Grant Competition – Stage 1 Peer Review Committee
- 06/16 Reviewer for 11 applications for 2016 CIHR Project Grant Application
- 11/15 Scientific reviewer for American Journal of Respiratory and Critical Care Medicine
- 11/15, 07/15, 11/14 Scientific Reviewer for Journal of Statistical Computation and Simulation
- 11/15 Reviewer CIHR Foundation Scheme: 2015 2nd Live Pilot
- 10/15 Reviewer on the Foundation Grant – New Investigator – Stage 1 Peer Review Committee

- 10/15 Enrolled as member of the college of reviewers for CIHR
- 10/15, 06/14, 12/13 Reviewer on the Randomized Controlled Trials Peer Review Committee in the 2013, 2014 and 2015 Open Operating Grant Competitions (CIHR)
- 02/13 Internal scientific reviewer for U of C's Institute of Public Health (IPH) internal CIHR review.
- 09/12 – to date Scientific reviewer for Community Research Ethics Board of Alberta (CREBA) within AIHS (now HREBA)
- 06/12 Alberta Children's Hospital Research Institute for Child and Maternal Health's large grant competition.
- 05/10 Pediatric Rehabilitation Research Initiative Award
University of Calgary
- 01/10 Perinatal Competition
Alberta Health Services
- 07/09 ACH Foundation Funding Competition(s)
Alberta Health Services
- 07/09 ACH Small Grants Competition
Alberta Health Services
- 06/09 ACH Clinical Trials
Alberta Health Services
- 08/08, 01/08, 11/06 Child Health Research Group Grant
Calgary Health Region
- 2005 Scientific reviewer for Technometrics

Consulting experience

- 01/06 – to date Research Methods Team, Pediatrics Department, University of Calgary, Alberta Children's Hospital
- 09/97 – 01/05 Assistant Director (99-05), Joint Statistical Consultant (97-99)
Statistical Consulting and Research Lab, Mathematics and Statistics Department
Competently interpreted and gave different clients an understandable and realistic approach to their problem at hand. Efficiently compiled, modeled and analyzed data in order to solve the problem. Many successful projects were carried out mostly by me with little need for supervision. Coordinated data entry and analysis of survey data. Played an important role as part of a team on other projects. Incurred in various topics for on and off-campus researchers, including kinesiology (human gait analysis), geophysics research, survey analysis, petrochemical companies (pipeline-related analyses), eye filter effects, and calibration of bactometer (meat industry), among others.

Work Experience in industrial settings

- 01/97 – 08/97 ACNIELSEN COMPANY (MÉXICO)
 Statistical Research Executive TAM Service
 Statistical Research Department
 Enhanced the process and timing of estimation of universes for Television Audience Measurement service, as well as those of operative sample control
 Designed measurements for easier quality control of viewing and programming data. Researched possibilities for launching the service in Central American countries, setting a solid stage for the actual launching
- 11/95 – 01/97 ACNIELSEN COMPANY (MÉXICO)
 Statistical Research Executive Census
 Statistical Research Department
 Optimized statistical sampling procedures, validation and processing of databases for estimation and projections of universes for different marketing research studies, including Household Panel Service Effectively coordinated a 5 person team for the preparation of fieldwork material (survey information).
 Created and organised from scratch all processes needed for the sampling design for three new franchises for a major soft drink firm
- 05/95 – 11/95 GALLUP DE MÉXICO S.A. DE C.V.
 Project Assistant
 Quantitative Projects Department
 Introduced statistical sampling notions to the process of survey obtained data. Added value to studies by processing and interpreting results of statistical tools considered to be innovative in the department. Coordinated and taught, with great response, an introductory statistics course for non-statistics employees
- 06/93 – 12/93 PROCTER & GAMBLE DE MÉXICO S.A. DE C.V. Detergents Division
 Scholar/intern
 Product Supply Finance Department
 Led the start-up of a Losses Control Project in detergent processing, covering from reception of raw materials to finished product and inventories of the latter. Had an 80% decrease in losses, both on processing and reprocessing.

VIII. RESEARCH SUPPORT

- 04/17 – 10/21 Canadian Institutes of Health Research,
Principal Investigators: Samuel SM, Dimitropoulos G, Mackie A
Co-Investigators: Andrew G, Guilcher G, Hamiwka L, Klarenbach S, Lang E, McBrien K, **Nettel-Aguirre A**, Pacaud D, Pinzon J, Scott S, Zwaigenbaum L
Project Title: Evaluating innovations in transition to adult care: Transition Navigator Trial
Amount: \$761,175.00
- 04/18 – 03/21 Canadian Institutes of Health Research,
Principal Investigator: Dr. Frank P. Macmaster
Co-Investigators: Croarkin P, Harris A, Kirton C, **Nettel-Aguirre A**, Pringsheim T, Wilcox G, Zewdie E
Project Title: TICS: Transcranial Magnetic Stimulation for Intervening in Children with Tourette’s Syndrome
Amount: \$420,750.00
- 05/17 – 05/18 Human Development, Child and Youth Health,
PJT Project Grant Competition, CIHR
Principal Investigators: Samuel S, Dimitropoulos G, Mackie A
Co-Investigators: Guilcher G, Klarenbach S, Lang E, **Nettel-Aguirre A**, Pacaud D, Pinzon J, Scott S, Zwaigenbaum L
Project Title: Evaluating Innovations in Transition to Adult Care: Transition Navigator Trial
Amount: \$100,000.00
- 02/17 – 02/20 BMO Endowed Research Award in Healthy Living,
Alberta Children’s Hospital Research Institute
Principal Investigators: Samuel S, Mackie A, Dimitropoulos G
Co-Investigators: **Nettel-Aguirre A**, Klarenbach S, Pacaud D, Lang E, Andrew G, Guilcher G, Zwaigenbaum L, Pinzon J, Hamiwka L, Shannon Scott
Knowledge Users: Johnston K, Wrobel I, McCrady H, Thul D, Morrison C, Elliott A, and Team
Project Title: Innovations in Transition to Adult Care: Well on Your Way Program
Amount: \$300,000.00

- 02/17 – 02/20 Health Outcomes Improvement Fund, Maternal Newborn,
Child and Youth Strategic Clinical Network, Alberta Health Services
Principal Investigators: Samuel S, Mackie A, Dimitropoulos G
Co-Investigators: **Nettel-Aguirre A**, Klarenbach S, Pacaud D, Lang E, Andrew G, Guilcher G, Zwaigenbaum L, Pinzon J, Hamiwka L, Shannon Scott
Knowledge Users: Johnston K, Wrobel I, McCrady H, Thul D, Morrison C, Elliott A, and Team
Project Title: The Transition Navigator Trial: Evaluating a patient navigator service to improve transition to adult health services for youth and young adults with chronic health conditions
Amount: \$375,000.00
- 12/16 – 11/21 Canadian Institutes of Health Research,
Team Grant: Environments and Health: Intersectoral Prevention Research
Principal Applicant: Hagel BE
Co-Principal Applicants: Howard A, Macpherson A, Fuselli P
Co-Applicants: Belton K, Buliung R, Cloutier M-S, Emery CA, Faulkner G, Kennedy J, Ma T, Macarthur C, McCormack G, Morrow G, **Nettel-Aguirre A**, Owens L, Pike I, Russell K, Torres Michel J, Voaklander D, Winters M
Project Title: The Built Environment and Active Transportation Safety in Children and Youth
Amount: \$1,935,110.00
- 10/16 – 09/17 Cumming School of Medicine
Principal Applicant: Currie G
Co-Applicants: Michaels-Igbokwe C, MacDonald S, **Nettel-Aguirre A**, Freedman S
Project Title: Understanding heterogeneity in parent preferences for vaccinations for their children: pilot
Amount: \$20,000.00
- 03/16 – 03/17 Canadian Institutes of Health Research
Letter of Intent for Environments and Health Initiative
Principal Applicant: Hagel BE
Co-Principal Applicants: Fuselli P, Howard A
Co-Applicants: Belton K, Buliung R, Coultier M-S, Emery C, Kennedy J, Ma T, Macarthur C, Macpherson A, McGowan J, McCormack G, **Nettel-Aguirre A**, Owens L, Pike I, Torres Michel J, Voaklander D, Winters M
Project Title: The Built Environment and Active Transportation Safety in Children and Youth
Amount: \$49,973.00

- 03/16 – 03/17 Department of Paediatrics, Cumming School of Medicine, University of Calgary
 Innovation Award
 Principal Applicant: Hagel BE
 Co-Applicants: Howard A, Rowe BH, **Nettel-Aguirre A**, Embree T
Project Title: A New Approach for Determining the Cause of Motor Vehicle Related Paediatric Bicycling Injuries
 Amount: \$18,825.00
- 07/15 Canadian Institutes of Health Research
 Principal Applicant: Samuel S
 Co-Applicants: Pinsk MN, Wade AW, Dart AB, Eddy AA, Mammen C, Morgan CJ, **Nettel-Aguirre A**, Parekh RS, Scott SD, Zappitelli M
 Collaborators: Arora S, Benoit G, Bitzan M, Erickson R, Feber J, Filler G, Geier P, Girardin C, Tee J
Proposal: The Canadian Childhood Nephrotic Syndrome (CHILDNEPH) Project
 Amount: \$541,940.00 (Granted)
- 07/15 Canadian Institutes of Health Research
 Principal Applicant: Kirton A
 Co-Applicants: Andersen J, **Nettel-Aguirre A**, Mineyko A, Majnemer A, Brooks B, Betuzzi C, Zewdie E, MacMaster F, Carlson H, Yager JY, Kellner J, Rho J, Barlow K, Bello-Espinosa L, Hill M, Shevell M, Syed NI, Dukelow S, Bemister T, Bernier F, Bikson M, Bray S, Buchhalter J, Chen R, Dunn J, Fehlings D, Goldowitz D, Goodyear B, Ho A, Iaria G, Lebel C, Lebel M, Monchi O, Oskouo M, Pike B, Scantlebury M, Subramaniam S, Wei X-C, Yang J, Yeates K, Hodge J
Proposal: The Alberta Perinatal Stroke Program: Neuromodulation to Optimize Outcomes
 Amount: \$2,823,520.00 (Granted)
- 01/15 International Society of Nephrology (ISN)
 Principal Applicant: Adebowale A
 Co-Applicants: Samuel S, Zappitelli M, James MT, Bello A, **Nettel-Aguirre A**, McLaughlin K
Proposal: Screening for acute kidney injury among hospitalized children in Nigeria
 Amount: \$12,000.00 (Granted)

- 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
- 06/13 Alberta Centre for Child, Family and Community Research (The Centre)
 Calgary, Alberta
 Principal Applicant: McCormack G
 Co-Applicants: **Nettel-Aguirre A**, Johnston C, Bandali F, Sawka KJ, Swanson K
Proposal: Peer social networks and their influence on sedentary leisure-time, diet, and eating behaviour of children and adolescents
 Amount: \$9,646.00 (Granted)
- 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: \$2,425,000.00
- 02/13 Department of Pediatrics 2012 Innovation Award
 Calgary, Alberta
 Principal Applicant: Stang A
 Co-Applicants: Thompson G, Johnson D, Freedman S, Mikrogianakis A, **Nettel-Aguirre A**, Williamson J
Proposal: Traditional Research Nurses versus an Innovative Undergraduate Research Assistant Program: The Parent Perspective (the TRAIN study)
 Amount: \$24,662.00 (Granted)
- 02/13 Department of Pediatrics 2012 Innovation Award
 Calgary, Alberta
 Principal Applicant: Freedman S
 Co-Applicants: Cheng A, Johnson D, Mikrogianakis A, Spence G, **Nettel-Aguirre A**, Williamson S, Williamson J

Proposal: Assessing Dehydration at Triage Employing End Tidal CO2 Monitoring in Children with Gastroenteritis

Amount: \$24,925.00 (Granted)

- 02/13 – 01/17 Canadian Institutes of Health Research
Principal Applicant: McCormack GR
Co-Applicants: Csizmadi I, **Nettel-Aguirre A**, Friedenreich C, McLaren L, Potestio M, Sandalack B
Project Title: Pathways to weight: The influence of neighbourhood environments on the weight status of adults
Amount: \$85,256.00 (Granted)
- 01/13 – 01/14 Alberta Children’s Hospital Research Institute (ACHRI)
Principal Applicant: Elsharkawy A
Co-Applicants: Rabi J, Mitchell K, **Nettel-Aguirre A**
Project Title: Peak Serum Bilirubin as an Indicator of hypoxic ischemic encephalopathy severity
Amount: \$3,000.00 (Granted)
- 01/13 – 01/16 Alberta Innovates Health Solutions – Collaborative Research and Innovation Project
Collaborative Lead: Kirton A
Collaborative Co-Leads: Yager J, Anderson J
Collaborative Members: Hagel B, **Nettel-Aguirre A**, Hill M
Project Title: The Alberta Perinatal Stroke Project
Amount: \$750,000.00 (Granted)
- 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: \$49,972.00
- 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: \$10,000.00

- 07/12 – 06/13 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: \$49,972.00 (Granted)
- 10/11 – 09/14 University of Calgary Emerging Team Grant
Principal Investigator(s): Johnson D, Newton R, Stang A
Co-Investigator(s): Giembycz M, Mandhane P, Hartling L, Currie G, **Nettel-
Aguirre A**, Noseworthy M, Findlay W, Dean
Project: Combined Glucocorticoid Adrenergic Therapy (CONjuGATE)
Amount: \$300,000.00 (Granted)
- 04/11 – 04/14 Canadian Institutes of Health Research, PHSI and AIHS
Principal Investigator: Johnson D
Co-Applicants: Grimshaw J, Lockyer J, Pusic M, Currie G, **Nettel-Aguirre A**,
Scott S, Hartling L, Spier S, Majesic C, Cowie R, Befus D, Sharpe H
**Project: The Implementation and Evaluation of an Alberta Childhood
Asthma Clinical Pathway**
Amount: \$350,000.00 from CIHR PHSI, \$150,000.00 matching funds from
AIHS (Granted)
- 03/10 – 03/13 Alberta Innovates – Health Solutions
Principal Investigator: Scott S
Co-Investigator(s): Johnson D, Klassen T, Grimshaw J, **Nettel-Aguirre A**
**Project: Understanding implementation processes of clinical pathways and
clinical practice guidelines in paediatric contexts**
Amount: \$255,000.00 for 3 years (Granted)
- 12/10 – 11/12 NeuroDevNet Opportunities Initiative Operating Grant
Principal Investigator: Kirton A
Co-Investigator(s): Yusuf K, Narendran A, Massicotte P, deVeber G, Andersen
J, Yager J, **Nettel-Aguirre A**, Hill M, Shevell M
Project: Pathophysiology of perinatal stroke
Amount: \$150,000.00 for 2 years (Granted)
- 11/10 – 11/12 Canadian Institutes of Health Research
Principal Investigator: **Nettel-Aguirre A**,
Co-Principal Investigator: McCormack G
Co-Investigator(s): Genereux N, Greenwood-Lee J, Hawe P, Lupien S, Wu B
Project: Health Impact of Unexpected School Closure
Amount \$197,384.00 (Granted)

- 07/10 – 06/12 The Kidney Foundation of Canada
Principal Investigator: Samuel S
Co-Investigator(s): Hemmelgarn B, Tonelli M, **Nettel-Aguirre A**
Project: Health care utilization during transition from childhood to adulthood in pediatric end-stage renal disease patients
Amount: \$50,000.00/year (Granted)
- 07/10 – 06/11 ICMH/Alberta Children’s Hospital Foundation/operating grants
Principal Investigator: Koshy S, Hemmelgarn B
Co-Investigator(s): Tonelli M, Foster B, **Nettel-Aguirre A**
Project: End Stage Renal Disease in Canadian Aboriginal Children
Amount: \$49,556.00 (Granted)
- 05/10 – 05/11 Alberta Centre for Child, Family and Community Research
Principal Applicant: Hagel B
Co-Investigators: Rowe B, McCormick G, **Nettel-Aguirre A**, Voaklander D, Embree T, Ruest N, Gruttz J, Tonder C, O’Connor M, Fuselli P
Project Title: Environmental determinants of cycling injuries
Amount: \$39,994.00 (Granted)
- 01/10 – 06/10 Public Health Agency of Canada
CORE Whole School Mental Health Promotion
Principal Investigator: Hawe P
Co-Investigator(s): Shiell A, Lupien S, **Nettel-Aguirre A**
Project: PHAC Innovations Strategy/Population Health Fund Grant
Amount: \$211,904.00 (Granted)
- 11/09 – 11/12 IDRC Global Health Research Initiative/Africa Health Systems Initiative (AHSI-RES)
Co-Principal Investigators: Maling S, Barigye C
Co-Applicant Researchers: Brenner J, Kabakyenga J, Ntaro M, Pim C, Singhal N, Wotton K, MacDonald N, **Nettel-Aguirre A**
Co-Applicant Decision Makers: Kaguna A, Mabuma E, Nsungwa-Sabiiti J
Project: Healthy Child Uganda: Can village health volunteers trained in integrated community case management of childhood illness improve access to care for Africa’s most vulnerable children?
Amount: \$336,200.00 (Granted)
- 09/09 – 06/12 Heart & Stroke Foundation of Alberta, NWT & Nunavut
Principal Investigator: Kirton A
Co-Investigator(s): Massicotte P, deVeber G, Hill M, Demchuk A, **Nettel-Aguirre A**, Barlow K
Project: Modulation of brain plasticity after perinatal stroke
Amount: \$75,000.00 year 1 (Granted)
Year 2 & 3 \$75,000.00 each year contingent upon capacity of Foundation to

commit financial resources necessary for ongoing support and upon evidence of successful progress in the research

- 09/09 – 09/11 The Lung Association Alberta & NWT
Co-Principal Investigator(s): Mandhane P, Adamko D, Majaeisic C, Johnson D, Bjornson C, Spier S
Co-Investigator(s): Kellner J, Surette M, Lee BE, Craig W, **Nettel-Aguirre A**
Project: A double-blind randomized controlled trial of azithromycin for the acute management of wheezy pre-school children
Amount: \$300,000.00 (Granted)
- 09/09 – 09/10 Alberta Children’s Hospital Foundation
Principal Investigator: Kirton A
Co-Investigator(s): Rajapakse T, Hill M, Demchuk A, deVeber G, Barlow K, **Nettel-Aguirre A**
Project: Clinical and prothrombotic risk factor profiles in perinatal stroke: A case-control study
Amount: \$49,946.00 (Granted)
- 07/09 – 06/10 ICMH/Alberta Children’s Hospital Foundation Starter Grant
Principal Investigator(s): Koshy S, Hemmelgarn B
Co-Investigators: Tonelli M, **Nettel-Aguirre A**, Clark C
Project: Health Outcomes During Transition to Adulthood in Paediatric Patients with End-Stage Renal Disease
Amount: \$46,112.00 (Granted)
- 01/09 – 01/10 ICMH/Alberta Children’s Hospital Foundation
Principal Investigator: Kellner J
Co-Investigator(s): Johnson D, Lynch T, Marrie T, **Nettel-Aguirre A**, Slupsky C
Project: Accuracy of Metabolomics for Diagnosing Paediatric Pneumonia
Amount: \$50,000.00 (Granted)
- 09/08 – 09/10 Alberta Centre for Child, Family and Community Research
Principal Investigator: Benzies K
Co-Investigator(s): Magill-Evans J, Lacaze-Masmonteille T, Yee W, Blahitka L, Leew S, **Nettel-Aguirre A**
Project: Effects of an educational intervention on fathers’ interactions with infants born between 34 and 36 weeks gestation
Amount: \$99,908.00 over two years (Granted)
- 07/08 – 07/11 Juvenile Diabetes Research Foundation
Principal Investigator: Pacaud D
Co-Investigators: Mah J, Malik R, Zochodne D, Romanchuk K, Astle W, **Nettel-Aguirre A**
Project: Corneal Confocal Microscopy to detect Diabetic Neuropathy in

Children

Amount: \$362,358.00 over 3 years (Granted)

- 07/08 – 07/09 American College of Medical Toxicology
Principal Investigator: Yarema M
Co-Investigators: Johnson DW, Silvilotti M, Bailey B, Lord J, **Nettel-Aguirre A**, Victorino C, Haney E, Gee A, Gosselin S, Spyker D, Berlin R, Purssell R, Thompson M, Rumack B.
Project: Deaths in patients hospitalized for acetaminophen poisoning in Canada from 1980-2005
Amount: \$7,500.00 (Granted)
- 05/08 – 05/09 Alberta Centre for Child, Family & Community Research
Principal Investigator: Benzies K
Co-Investigators: Magill-Evans J, Lacaze-Masmonteille T, Yee W, Blahitka L, Leew S, **Nettel-Aguirre A**
Project: Does the intensity of an educational intervention have an effect on fathers' interactional skills with his late preterm infant
Amount: \$39,999.00 (Granted)
- 06/07 – 06/08 Calgary Health Region, Calgary
Principal Investigator: Yarema MC
Co-Investigators: Johnson DW, Silvilotti M, Bailey B, Lord J, **Nettel-Aguirre A**, Victorino C, Haney E, Gee A, Gosselin S, Spyker D, Berlin R, Purssell R, Thompson M, Rumack B.
Project title: Deaths in patients hospitalized for acetaminophen poisoning from 1980-2005
Amount: \$5,000.00 (Granted)
- 05/07 – 05/08 Alberta Heritage Foundation Summer Studentship, Edmonton
Principal Investigator: Yarema MC
Co-Investigators: Johnson DW, Silvilotti M, Bailey B, Lord J, **Nettel-Aguirre A**, Victorino C, Haney E, Gee A, Gosselin S, Spyker D, Berlin R, Purssell R, Thompson M, Rumack B
Project title: Deaths in patients hospitalized for acetaminophen poisoning from 1980-2005
Amount: \$5,200.00 (Granted)
- 09/06 – 09/08 University of Calgary, URGC Research Grant
Co-Investigators: Yarema M, Johnson DW, Silvilotti M, Bailey B, Lord J, **Nettel-Aguirre A**, Victorino C, Haney E, Gee A, Gosselin S, Spyker D, Berlin R, Purssell R, Thompson M, Rumack B.
Project title: Deaths In Patients Hospitalized For Acetaminophen Poisoning In Canada From 1980-2005
Amount: \$8000.00 (Granted)

- 03/06 – 12/06 University of Calgary Starter Grant
 Principal Applicant: Hagel B
 Co-Applicant(s): Goulet C, Pless IB
 Collaborator(s): **Nettel-Aguirre A**
Project title: Helmet use and neck injury risk in skiers and snowboarders
 Amount: \$9,883.00 (Granted)
- 01/06 – 12/06 Alberta Children’s Hospital Foundation Research Grant
 Principal Investigator: Ho J
 Co-Investigators: Pacaud D, Huang C, **Nettel-Aguirre A**
Project title: A Comparison of Insulin Detemir in a BID Insulin Regimen Versus a TID Insulin Regimen in Children with Type 1 Diabetes: A Randomized Controlled Trial
 Amount: \$44,235.00 (Granted)

IX. INVITED ADDRESSES

- 06/16 Introducción al análisis de datos funcionales y aplicación en el área de salud
(Introduction to Functional Data Analysis and an application in health)
 Plática invitada Magistral en la 9a semana internacional de probabilidad y estadística
(Invited Keynote at the 9th international Week of probability and Statistics)
 Benemerita Universidad de Puebla, Puebla, Mexico
 June 13-17, 2016
- 05/13 Biostatistics Student Career Session
 Title: “How to succeed in your statistics job”
 Statistical Society of Canada
 Annual meeting May 26-29, 2013, Edmonton, AB
 AB session funded by CIHR grant, Dissemination Events Competition

X. PUBLICATIONS/PRESENTATIONS

Peer reviewed manuscripts

1. Yarema M, Chopra P, Sivilotti MLA, Johnson D, **Nettel-Aguirre A**, Bailey B, Victorino C, Gosselin S, Pursell R, Thompson M, Spyker D, Rumack B. *Anaphylactoid Reactions to Intravenous N-Acetylcysteine during Treatment for Acetaminophen Poisoning*. Journal of Medical Toxicology, EPublished Ahead of Print: March 12, 2018.

2. Whittaker JL, Toomey CM, Woodhouse LJ, Jaremko JL, **Nettel-Aguirre A**, Emery CA. *Association between MRI-defined osteoarthritis, pain, function and strength 3 – 10 years following knee joint injury in youth sport.* British Journal of Sports Medicine, October 10, 2017.
3. Power A, **Nettel-Aguirre A**, Fruitman D. *Fetal Right Ventricular Prominence: Associated Postnatal Abnormalities and Coarctation Clinical Prediction Tool.* Pediatric Cardiology, October 2017, Volume 38, Issue 7, Pages 1471 - 1477.
4. Freedman SB, Xie J, **Nettel-Aguirre A**, Lee B, Chui L, Pang X-L, Zhuo R, Parsons B, Dickinson JA, Vanderkooi OG, Ali S, Osterreicher L, Lowerison K, Tarr PJ. *Enteropathogen detection in children with diarrhoea, or vomiting, or both, comparing rectal flocced swabs with stool specimens: an outpatient cohort study.* The Lancet Gastroenterology & Hepatology, September 2017, Volume 2, No. 9, Pages 662 to 669.
5. Currie G, Crotts J, **Nettel-Aguirre A**, Johnson D, Stang A. *Management of wheezy preschoolers in the emergency department: a discrete choice experiment.* Pediatric Emergency Care, **Accepted:** July 17, 2017.
6. Kuntze G, Nesbitt C, Whittaker JL, **Nettel-Aguirre A**, Toomey C, Esau S, Doyle-Baker PK, Shank J, Brooks J, Benseler S, Emery CA. *Exercise Therapy in Juvenile Idiopathic Arthritis: A Systematic Review and Meta-Analysis.* Archives of Physical Medicine and Rehabilitation, January 2018, Volume 99, Issue 1, Pages 178 to 193.e1.
7. Yarema MC, Sivilotti MLA, **Nettel-Aguirre A**, Rumack BH. *Reply to: Limitations of the evidence supporting use of undetectable acetaminophen levels obtained < 4 hours post-ingestion to rule out toxicity.* Clinical Toxicology, June 2017, Volume 55, Issue 5, Page 367.
8. Emery CA, Black AM, Kolstad A, Martinez G, **Nettel-Aguirre A**, Engebretsen L, Johnston K, Kissick J, Maddocks D, Tator C, Aubry M, Dvorák J, Nagahiro S, Schneider K. *What strategies can be used to effectively reduce the risk of concussion in sport? A systematic review.* British Journal of Sports Medicine, June 2017, Volume 51, Issue 12, Pages 978 – 984.
9. Alsaidi S, Wagner D, Grisaru S, Midgley J, Hamiwka L, Wade A, **Nettel-Aguirre A**, Samuel S. *Glomerular filtration rate trends during follow-up in children with steroid-sensitive nephrotic syndrome.* Canadian Journal of Kidney Health and Disease, May 29, 2017, Volume 4.

10. Freedman SB, Johnson DW, **Nettel-Aguirre A**, Mikrogianakis A, Williamson-Urquhart S, Monfries N, Cheng A. *Assessing Dehydration Employing End-Tidal Carbon Dioxide in Children With Vomiting and Diarrhea.* Pediatric Emergency Care, Epublised Ahead of Print: May 23, 2017.
11. Frehlich L, Friedenreich C, **Nettel-Aguirre A**, McCormack G. *Test-retest reliability of a modified International Physical Activity Questionnaire (IPAQ) to capture neighbourhood physical activity.* Journal of Human Sport & Exercise, January 2018, Volume 13, Issue 1.
12. Brenner JL, Barigye C, Maling S, Kabakyenga J, **Nettel-Aguirre A**, Buchner D, Kyomuhangi T, Pim C, Wotton K, Amon N, Singhal N. *Where there is no doctor: can volunteer community health workers in rural Uganda provide integrated community case management?* African Health Sciences, March 2017, Volume 17, Issue 1, Pages 237 – 246.
13. Toomey CM, Whittaker JL, **Nettel-Aguirre A**, Reimer RA, Woodhouse LJ, Ghali B, Doyle-Baker PK, Emery CA. *Higher Fat Mass Is Associated With a History of Knee Injury in Youth Sport.* Journal of Orthopaedic & Sports Physical Therapy, February 1, 2017, Volume 47, Number 2, Pages 80 - 87.
14. Yarema MC, Green JP, Sivilotti MLA, Johnson DW, **Nettel-Aguirre A**, Victorino C, Spyker DA, Rumack BH. *Can a serum acetaminophen concentration obtained less than 4 hours post-ingestion determine which patients do not require treatment with acetylcysteine?* Clinical Toxicology, February 2017, Volume 55, Issue 2, Pages 102-108.
15. Kirton A, Ciechanski P, Zewdie E, Andersen J, **Nettel-Aguirre A**, Carlson H, Carsolio L, Herrero M, Quigley J, Mineyko A, Hodge J, Hill M. *Transcranial direct current stimulation for children with perinatal stroke and hemiparesis.* Neurology, January 17, 2017, Volume 88, Issue 3, Pages 259 - 267.
16. Bittencourt NFN, Meeuwisse WH, Mendonça LD, **Nettel-Aguirre A**, Ocarino JM, Fonseca ST. *Complex systems approach for sports injuries: moving from risk factor identification to injury pattern recognition – narrative review and new concept.* British Journal of Sports Medicine, November 2016, Volume 50, Issue 21, pages 1309 - 1314.
17. Virtanen H, Potter K, Pacaud D, Luca P, Kaminsky L, **Nettel-Aguirre A**, Ho J. *Prevalence of Alcohol, Tobacco, Cannabis and Illicit Substance Use in a Population of Canadian Adolescents with Type 1 Diabetes Compared to a General Adolescent Population.* Canadian Journal of Diabetes, October 2016, Volume 40, Issue 5, Pages S66 to S67.

18. Ho J, Pedersen SD, Virtanen H, **Nettel-Aguirre A**, Huang C. *Family Intervention for Obese/Overweight Children Using Portion Control Strategy (FOCUS) for Weight Control: A Randomized Controlled Trial.* Global Pediatric Health, September 19, 2016, Volume 3.
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Peer reviewed manuscripts (Submitted)Manuscripts under preparation

1. **Nettel-Aguirre A**, McCormack G, Genereux N, Lupien S, Hawe P, *A longitudinal analysis of the impact of a school closure on networks and their influence on health outcomes.*
2. **Kam K, Nettel-Aguirre A**, Mitchell I, Johnson DW, Currie G, *A multidisciplinary clinic for pediatric patients with problematic severe asthma: impact on clinical outcomes and healthcare utilization.*
3. Bjornson C, Williamson J, **Nettel-Aguirre A**, Johnson DW, *The natural history of croup in children: a prospective, observational study.*
4. Emery CA, Kang J, Hagel BE, Goulet C, Shrier I, **Nettel-Aguirre A**, Meeuwisse WH. *The net risk of injury and concussion associated with body checking and body checking experience in youth ice hockey players ages 11-14.*
5. Romanow N, Pfister K, McEwen J, Rowe BH, Emery C, **Nettel-Aguirre A**, Goulet C, Russell K, McRae A, Lang E, Hagel BE. *Risk factors for specific body region injuries in skiers and snowboarders.*
6. Pfister K, Romanow N, Rowe BH, Emery C, **Nettel-Aguirre A**, Goulet C, Russell K, Hagel BE. *Factors related to ski and snowboard helmet use and helmet fit.*

Books, chapters

1. Emery CA, Thierry-Olivier O, Hagel BE, Macpherson A, **Nettel-Aguirre A**. *Injury Prevention in Youth Sports*. D. Caine, L. Purcell (eds.), Injury in Pediatric and Adolescent Sports, Contemporary Pediatric and Adolescent Sports Medicine, Springer International Publishing Switzerland 2015, DOI 10.1007/978-3-319-18141-7_15.

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1. Vanderkooi O, Xie J, **Nettel-Aguirre A**, Zhou R, Parsons B, Lee B, Pang X, Chui L, Payne D, MacDonald J, Ali S, Osterreicher L, Freedman SB. *Gastroenteritis Severity – A Prospective Cohort Comparison of Children in Emergency Department and Home Settings*. Presented as a poster at the Pediatric Academic Societies Annual Meeting on May 5 to 8, 2018 in Toronto, Ontario (Poster Presentation by O. Vanderkooi).

2. Xie J, **Nettel-Aguirre A**, Lee B, Chui L, Pang X, Zhou R, Parsons B, Vanderkooi O, Tarr P, Ali S, Dickinson J, Hagen E, Svenson L, MacDonald S, Drews S, Tellier R, Graham T, Lavoie M, MacDonald J, Freedman SB. *Relationship Between Enteric Pathogen and Acute Gastroenteritis Disease Severity*. Presented as a poster at the Pediatric Academic Societies Annual Meeting on May 5 to 8, 2018 in Toronto, Ontario (Poster Presentation by J. Xie).
3. Dotchin SA, Virtanen HT, Romanchuk KG, Pacaud D, Nettel-Aguirre A, Lagrou LM, Mah JK, Malik RA. *Corneal Confocal Microscopy shows Progressive Reduction in Corneal Nerve Fiber Length over a 2 Year Time Period in Children with Type 1 Diabetes*. Presented as an oral presentation at the 44th Annual Meeting of the American Association for Pediatric Ophthalmology and Strabismus (combined with the International Strabismological Association) on March 18 to 22, 2018 in Washington, D.C., U.S.A. (Oral Presentation by K. Romanchuk).
4. Pitt T, Aucoin J, Graff P, Howard A, **Nettel-Aguirre A**, McCormack GR, Owens L, Anderson M, Rowe BH, Hagel B. *Adaptation of a Canadian Culpability Scoring Tool to Alberta Police Traffic Collision Report Data*. Presented as an oral presentation at the CARSP (Canadian Association of Road Safety Professionals) Conference 2018 on June 10 to 13, 2018 in Victoria, British Columbia (Oral Presentation by T. Pitt).
5. Pitt T, Graff P, Howard A, **Nettel-Aguirre A**, McCormack GR, Owens L, Anderson M, Rowe BH, Hagel B. *Identifying Motorist Risk Factors of Paediatric Bicycle-Motor Vehicle Collisions*. Presented as an oral presentation at the CARSP (Canadian Association of Road Safety Professionals) Conference 2018 on June 10 to 13, 2018 in Victoria, British Columbia (Oral Presentation by T. Pitt).
6. Whelan M, Hubka T, Stang A, Emery C, Freedman S, Howard A, Macpherson A, McCormack GR, **Nettel-Aguirre A**, Teschke K, Winters M, Hagel B. *The association between the built environment and bicycling injuries in children: A case-crossover pilot*. Presented as an oral presentation at the CARSP (Canadian Association of Road Safety Professionals) Conference 2018 on June 10 to 13, 2018 in Victoria, British Columbia (Oral Presentation by T. Hubka).
7. Frehlich L, Friedenreich C, **Nettel-Aguirre A**, McCormack G. *Reliability testing of a neighbourhood-specific physical activity questionnaire*. Presented as a poster at the Active Living Research Conference 2018 on February 11 to 14, 2018 in Banff, Alberta (Poster Presentation by L. Frehlich).

8. Frehlich L, Friedenreich C, **Nettel-Aguirre A**, Schipperijn J, McCormack G. *Correspondence between self-reported neighbourhood-specific physical activity and accelerometer and global position systems (GPS) monitor captured physical activity.* Presented as a poster at the Active Living Research Conference 2018 on February 11 to 14, 2018 in Banff, Alberta (Poster Presentation by L. Frehlich).
9. Frehlich L, Friedenreich C, **Nettel-Aguirre A**, Schipperijn J, McCormack G. *Correspondence between self-reported neighbourhood-specific physical activity and accelerometer and global position systems (GPS) monitor captured physical activity.* Presented as a poster at the Health GIS: Spatial Thinking in Applied Research, GIS Day event on November 15, 2017 in Calgary, Alberta (Poster Presentation by L. Frehlich).
10. Virtanen H, Potter K, **Nettel-Aguirre A**, Luca P, Pacaud D, Kaminsky L, Ho J. *Education, Knowledge and Practice of Harm Reduction Behaviours for Alcohol and Other Illicit Substance Use in Adolescents with Type 1 Diabetes.* Presented as a poster at the 20th Annual Diabetes Canada/Canadian Society of Endocrinology and Metabolism Professional Conference and Annual Meetings on November 1 to 4, 2017 in Edmonton, Alberta (Poster Presentation by J. Ho).
11. Farkas B, Wagner D, **Nettel-Aguirre A**, Friedenreich C, McCormack G. *The Association between Neighbourhood Built Characteristics and Physical Activity among Adults: A Systematic Review of Canadian Evidence.* Presented as an oral presentation at the Walk21 Calgary on September 19 to 22, 2017 in Calgary, Alberta (Oral Presentation by B. Farkas).
12. Farkas B, Friedenreich C, **Nettel-Aguirre A**, McCormack GR. *The Associations between Neighbourhood Built Characteristics and Walking Activity among Canadian Adults.* Presented as a poster at the Campus Alberta Student Conference on Health on September 9 to 10, 2017 in Calgary, Alberta (Poster Presentation by B. Farkas).
13. Freedman S, Xie J, **Nettel-Aguirre A**, Lee B, Chui L, Pang X-L, Zhuo R, Parsons B, Vanderkooi OG, Tarr P, Ali S, Dickinson JA, Hagen E, Svenson LW, MacDonald SE, Drews SJ, Tellier R, Graham T, Lavoie M, Macdonald J. *Relationship between Enteropathogen and Acute Gastroenteritis Disease Severity: A Prospective Cohort Study.* Presented as an oral presentation at the IDWeek 2017 on October 4 to 8, 2017 in San Diego, California (Oral Presentation by S. Freedman).
14. Freedman S, **Nettel-Aguirre A**, Xie J, Lee B, Chui L, Pang X-L, Zhuo R, Parsons B, Dickinson JA, Vanderkooi OG, Ali S, Osterreicher L, Lowerison K, Tarr P. *Enteropathogen Detection in Children with Diarrhoea and/or Vomiting: A Cohort Study Comparing Rectal Flocked Swabs and Stool Specimens.* Presented as an oral

presentation at the IDWeek 2017 on October 4 to 8, 2017 in San Diego, California (Oral Presentation by S. Freedman).

15. Freedman S, Xie J, **Nettel-Aguirre A**, Lee B, on behalf of the Alberta Provincial Pediatric Enteric Infection TEam (APPETITE). *Relationship between Enteric Pathogen and Acute Gastroenteritis Disease Severity: A Prospective Cohort Study – APPETITE Study*. Presented as an oral presentation at the 2017 American Academy of Pediatrics (AAP) National Conference & Exhibition on October 11 to 14, 2017 in Chicago, Illinois (Oral Presentation by S. Freedman).
16. King R, Seeger T, Zewdie E, **Nettel-Aguirre A**, Kirton A, Barlow K. *Longitudinal assessment of cortical excitability in pediatric traumatic brain injury*. Presented as an oral presentation at the Second International Paediatric Traumatic Brain Injury Conference on September 20 to 23, 2017 in Rome, Italy (Oral Presentation by R. King).
17. Barnard C, Bailey JAM, **Nettel-Aguirre A**, Benzies K. *Prioritizing the “Family Voice” to Enhance Family Centred Bedside Rounds*. Presented as a poster at the Pediatric Hospital Medicine 2017 (PHM 2017) Conference on July 20 to 23, 2017 in Nashville, Tennessee (Poster Presentation by C. Barnard).
18. Brobbey A, Williamson T, **Nettel-Aguirre A**, Wiebe SA, Lix L, Sajobi T. *Longitudinal Classification Models with Application in Health-Related Quality of Life Studies*. Abstract accepted for presentation at the 2018 International Conference on Health Policy Statistics on January 10 to 12, 2018 in Charleston, South Carolina (Presentation by A. Brobbey).
19. Litzenberger J, Kuo H-C, **Nettel-Aguirre A**, Zewdie E, Kirton A. *Clinical factors associated with response to constraint and/or brain stimulation in children with stroke-induced hemiparetic cerebral palsy*. Presented as an oral presentation at the 2017 American Academy for Cerebral Palsy and Developmental Medicine (AACPDMD) on September 13 to 16, 2017 in Montreal, Quebec (Oral Presentation by J. Litzenberger).
20. Kuo H-C, Litzenberger J, **Nettel-Aguirre A**, Zewdie E, Kirton A. *Physiological predictors of response to constraint and brain stimulation in children with hemiparetic cerebral palsy*. Presented as an oral presentation at the 2017 American Academy for Cerebral Palsy and Developmental Medicine (AACPDMD) on September 13 to 16, 2017 in Montreal, Quebec (Oral Presentation by H-C Kuo).

21. Frehlich L, Friedenreich C, **Nettel-Aguirre A**, Alaniz Uribe F, McCormack G. *Development of a self-reported neighbourhood-specific physical activity questionnaire.* Presented as a poster at the International Conference on Ambulatory Monitoring of Physical Activity and Movement (ICAMPAM) on June 21 to 23, 2017 in Bethesda, Maryland (Poster Presentation by L. Frehlich).
22. Frehlich L, Friedenreich C, **Nettel-Aguirre A**, Alaniz Uribe F, McCormack G. *Test-retest reliability of self-reported neighbourhood-specific physical activity.* Presented as a poster at The International Society of Behavioral Nutrition and Physical Activity (ISBNPA) Annual Meeting on June 7 to 10, 2017 in Victoria, British Columbia (Poster Presentation by L. Frehlich).
23. Frehlich L, Friedenreich C, **Nettel-Aguirre A**, Alaniz Uribe F, McCormack G. *Development and assessment of a neighbourhood-specific physical activity.* Presented as a poster at The Canadian Obesity Network – Calgary Chapter (CON-YYC) Research Showcase on February 8, 2017 in Calgary, Alberta (Poster Presentation by L. Frehlich).
24. van den Berg C, Doyle-Baker PK, **Nettel-Aguirre A**, Richmond S, Emery C. *The Influence of Previous Injury History on Health and Fitness Outcomes in Junior High School Students.* Presented as a poster at the IOC World Conference on Prevention of Injury and Illness in Sport at the Grimaldi Forum on March 16 to 18, 2017 in Monaco (Poster Presentation by C. van den Berg).
25. Whittaker JL, Toomey C, **Nettel-Aguirre A**, Jaremko JL, Emery CA. *The consequences of a youth sport related knee injury: Evidence of early post-traumatic osteoarthritis and other negative health outcomes 3-10 years post-injury.* Osteoarthritis Cartilage (Osteoarthritis Research Society International Congress 2017 Supplement – In Press) April 27 to 30, 2017, Caesar’s Palace, Las Vegas, Nevada (Oral Presentation by JL Whittaker).
26. Whittaker JL, Toomey C, **Nettel-Aguirre A**, Jaremko JL, Emery CA. *The relationship between MRI-defined osteoarthritis, pain, function and strength 3-10 years following a knee joint injury in youth sport.* Osteoarthritis Cartilage (Osteoarthritis Research Society International Congress 2017 Supplement – In Press) April 27 to 30, 2017, Caesar’s Palace, Las Vegas, Nevada (Poster Presentation by JL Whittaker).
27. Virtanen H, Potter K, Pacaud D, Luca P, Kaminsky L, **Nettel-Aguirre A**, Ho J. *Prevalence of alcohol, tobacco, cannabis and illicit substance use in a population of Canadian adolescents with type 1 diabetes compared to a general adolescent population.* Poster accepted for presentation at the 19th Annual CDA/CSEM Professional Conference and Annual Meetings on October 26 to 29, 2016 in Ottawa, Ontario at the Shaw

Convention Centre (Poster Presentation by H. Virtanen). To be published in the Canadian Journal of Diabetes.

28. Virtanen H, Nastase A, Romanchuk K, Mah JK, **Nettel-Aguirre A**, Malik RA, Pacaud D. *Corneal Confocal Microscopy Detects Progressive Nerve Fibre Loss Over 2 Years in Children With Type 1 Diabetes*. Abstract accepted at the 19th Annual CDA/CSEM Professional Conference and Annual Meetings on October 26 to 29, 2016 in Ottawa, Ontario at the Shaw Convention Centre (Oral Presentation by H. Virtanen). To be published in the Canadian Journal of Diabetes.
29. Emery CA, Krolikowski M, Black A, Meeuwisse WH, **Nettel-Aguirre A**, Goulet C, Hagel BE. *Preventing concussion in youth ice hockey: is research evidence necessary to inform policy change*. 12th World Conference on Injury Prevention and Safety Promotion, September 16 to 21, 2016 in Tampere, Finland. *Injury Prevention* 2016;22:Suppl 2 A240 doi:10.1136/injuryprev-2016-042156.669
30. Farias M, Couperthwaite A, Blanchard I, Patel A, **Nettel-Aguirre A**, Hagel BE. *On-line assessment of environmental characteristics of paediatric bicycling injuries in Alberta, Canada*. 12th World Conference on Injury Prevention and Safety Promotion, September 16 to 21, 2016 in Tampere, Finland. *Injury Prevention* 2016; 22: Suppl 2 A76 doi:10.1136/injuryprev-2016-042156.208.
31. Couperthwaite A, Blanchard I, Chisholm D, Doig C, **Nettel-Aguirre A**, Vogelaar G, Almansoori W, Voaklander D, Currie G, Embree T, Hagel BE. *Emergency Medical Services Response Time and Paediatric Mortality and Morbidity in the Urban Setting*. 12th World Conference on Injury Prevention and Safety Promotion, September 16 to 21, 2016 in Tampere, Finland. *Injury Prevention* 2016; 22: Suppl 2 A58-A59 doi:10.1136/injuryprev-2016-042156.159.
32. Richmond SA, Owoeye O, **Nettel-Aguirre A**, Macpherson A, van den Berg C, Hagel BE, Verhagen E, Finch C, Emery CA. *Evaluating the Implementation of a Sport Injury Prevention Program in a School Setting*. 12th World Conference on Injury Prevention and Safety Promotion, September 16 to 21, 2016 in Tampere, Finland. *Injury Prevention* 2016; 22: Suppl 2 A326 doi:10.1136/injuryprev-2016-042156.915.
33. Kam K, Currie G, **Nettel-Aguirre A**, Mitchell I, Johnson DW. *Cost impact of a multidisciplinary clinic for children with problematic severe asthma*. Presented as a poster at the European Respiratory Society International Congress on September 3 to 7, 2016 in London, UK (Poster Presentation by K. Kam).

34. Nastase AS, Virtanen H, **Nettel-Aguirre A**, Mah JK, Pacaud D, ACH CCM Study Group. *Longitudinal Assessment of Neuropathy in a Contemporary Cohort of Youth with Type 1 Diabetes*. Presented as a poster at the ACHRI Summer Student Research Day on August 16, 2016 at the Clara Christie Theatre in the Health Sciences Centre, Cumming School of Medicine, University of Calgary, in Calgary, Alberta (Poster Presentation by A. Nastase).
35. Loganathan PK, **Nettel-Aguirre A**, Al Awad E, Fajardo CA, Lodha A, Nair V, Scotland J, Soraisham A, York K, Young M, Rabi Y. *Trends in Oxygen Saturation in Healthy Term Infants: The TOST Study*. Presented as a poster at the Pediatric Academic Societies Meeting on May 3, 2016 in Baltimore, Maryland on April 30, 2016 to May 3, 2016 (Poster Presentation by PK Loganathan).
36. Baez M, Loganathan PK, Fajardo CA, Rabi Y, **Nettel-Aguirre A**. *Oxygen Saturations of Healthy Newborns at High Altitude*. Presented as a poster at the Pediatric Academic Societies Meeting on May 2, 2016 in Baltimore, Maryland on April 30, 2016 to May 3, 2016 (Poster Presentation by M. Baez).
37. Richmond SA, Owwoye O, **Nettel-Aguirre A**, Macpherson A, van den Berg C, Hagel BE, Verhagen E, Finch C, Emery CA. *Evaluating the Implementation of a Sport Injury Prevention Program in a School Setting*. *Clinical Journal of Sport Medicine* 2016; 26(3), May 2016, p e90.
38. Richmond SA, **Nettel-Aguirre A**, Romiti M, Owwoye O, van den Berg C, Doyle-Baker PK, Macpherson A, McKay C, Hagel BE, Verhagen E, Finch C, Emery CA. *Examining the Effectiveness of Neuromuscular Training in Youth in a School Setting*. *Clinical Journal of Sport Medicine* 2016; 26(3), May 2016, p e94-95
39. Toomey C, Emery CA, Doyle-Baker P, Whittaker J, **Nettel-Aguirre A**, Woodhouse L, Ghali B, De Bruyn R. *MRI defined osteoarthritis is discordant with clinical and functional outcomes associated with post-traumatic osteoarthritis 3-10 years following SPORT-related knee joint injury in youth*. Abstract accepted at the OARSI 2016 World Congress (Osteoarthritis Research Society International) on March 31, 2016 to April 3, 2016 in Amsterdam, Netherlands (Oral Presentation).
40. Power A, Fruitman D, **Nettel-Aguirre A**. *Fetal Right Ventricular Prominence: Description of Associated Postnatal Congenital Abnormalities and Creation of a Clinical Prediction Tool for Aortic Coarctation*. Abstract accepted for presentation at the Cardiology 2016: 19th Annual Update on Pediatric and Congenital Cardiovascular Disease on February 24 to 28, 2016 in Orlando, Florida.

41. Whittaker JL, Toomey CM, **Nettel-Aguirre A**, Jaremko J, Woodhouse LJ. *Evidence of early post-traumatic osteoarthritis and other negative health outcomes 3-10 years following knee joint injury in youth sport*. Canadian Institutes for Health Research Institute of Musculoskeletal Health and Arthritis Young Investigators Forum, Kananaskis, Canada, October 2015.
42. Whittaker JL, Woodhouse LJ, **Nettel-Aguirre A**, Emery CA, *Evidence of early post-traumatic osteoarthritis and other negative health outcomes 3–10 years following knee joint injury in youth sport*, World Confederation of Physical Therapy, Singapore; 05/2015 (Presented by LJ Woodhouse).
43. Park J, **Nettel-Aguirre A**, McLennan J, *Predicting the Use of Oral Rehydration Solution (ORS) for Children with Diarrhea: An Application of Logistic Regression and Classification Trees*. Abstract accepted at the American Society of Tropical Medicine and Hygiene 64th Annual Meeting on October 25 – 29, 2015 at the Philadelphia Marriot Downtown in Philadelphia, Pennsylvania (Poster Presentation).
44. Newell C, Ramage B, **Nettel-Aguirre A**, Robu I, Ahmed F, Khan A, *Jump power reflects the degree of disability in neuromuscular disease*. Mitochondrion, Volume 24, Supplement, Pages S1-S26 (September 2015).
45. Kirton A, Andersen J, Herrero M, Carsolio L, **Nettel-Aguirre A**, Keess J, Damji O, Mineyko A, Hodge J, Hill MD, *Brain stimulation and constraint for perinatal stroke hemiparesis: The PLASTIC CHAMPS trial*. Abstract accepted for presentation at the 11th EPNS European Paediatric Neurology Society Congress 2015 on May 27 to 30, 2015 in Vienna, Austria.
46. Whittaker JL, Woodhouse LJ, **Nettel-Aguirre A**, Emery CA, *Evidence of early post-traumatic osteoarthritis and other negative health outcomes 3-10 years following knee joint injury in youth sport*. Abstract presented at the 2015 OARSI (OsteoArthritis Research Society International) World Congress on Osteoarthritis being held April 30 to May 3, 2015 at the Washington State Convention Center in Seattle, Washington (Poster Presentation by JL Whittaker).
47. Richmond SA, Doyle-Baker PK, **Nettel-Aguirre A**, Emery CA. *Examining Measures of Adiposity as Risk Factors for Sport-Related Injury in Adolescents*. Abstract presented at the Canadian Academy of Sport and Exercise Medicine, Canadian Sport Injury Prevention Research Symposium in Ottawa, Ontario on February 11 to 14, 2015. Published in the Clinical Journal of Sport Medicine, Issue: Volume 25 (1), January 2015, Pages e9-e17 (Oral Presentation by SA Richmond).
48. Adeleye A, Ho A, **Nettel-Aguirre A**, Kirk V, Buchhalter J, *Prevalence Of Epileptiform Activity In Children Less Than 1 Year Of Age Referred For Polysomnography*. Accepted at the SLEEP 2014, the 28th Annual Meeting of the Associated Professional Sleep Societies, LLC, on May 31-June 4, 2014, at the Minneapolis Convention Center in Minneapolis, Minnesota (Poster Presentation).

49. Kirton A, Andersen J, Herrero M, Carsolio L, Mineyko A, Lane C, Roe J, Damji O, Hodge J, **Nettel-Aguirre A**, Hill M, *Repetitive transcranial magnetic stimulation effects on motor learning in perinatal stroke: Short-term outcomes from the PLASTIC CHAMPS trial.* Accepted at the 13th International Child Neurology Congress (ICNC) which is being held on May 4 to 9, 2014 at Igazu Falls, Brazil (Platform Presentation).
50. Pacaud D, Romanchuk K, Tavakoli M, Gougeon C, Ferdousi M, Mah JK, **Nettel-Aguirre A**, Malik RA, *Corneal Confocal Microscopy In Children With Type 1 Diabetes: Interobserver Agreement And Repeatability Of Nerve Fiber Length Measurements.* Accepted for presentation at the 74th Scientific Sessions of the American Diabetes Association to be held on June 13 – 17, 2014 in San Francisco, California.
51. Pfister K, Romanow N, Emery C, Meeuwisse W, **Nettel-Aguirre A**, Hagel BE. *Helmet use among skiers and snowboarders in Southern Alberta.* British Journal of Sports Medicine 2014; 48: 652 doi:10.1136/bjsports-2014-093494.245
52. Adeleye A, Brindle M, Bjornson C, Bailey JAM, **Nettel-Aguirre A**, Mitchell I, *PROTon Pump Inhibitor in Esophageal Atresia / TraCheoesophageal fistula: Dilatation Outcome Study (PROTECT Study).* Accepted at the 2014 ATS International Conference to be held on May 18, 2014 in San Diego, California and at the Canadian Respiratory Conference 2014, to be held on April 24 to 26, 2014 in Calgary, Alberta (Poster Presentation).
53. Schneider KJ, Meeuwisse WH, **Nettel-Aguirre A**, Boyd L, Barlow KM, Emery CA, *Cervico-vestibular physiotherapy in the treatment of individuals with persistent symptoms following sport related concussion: A randomized controlled trial.* British Journal of Sports Medicine 2013; **47**:e1 doi: 10.1136/bjsports-2012-092101.54. Accepted for presentation at the Tenth World Congress on Brain Injury, to be held March 19-22, 2014, San Francisco, California.
54. Pacaud D, Romanchuk K, Malik Rayaz A., **Nettel-Aguirre A**, Mah JK, *Corneal Confocal Microscopy for the Detection of Early Diabetic Neuropathy in Children.* Canadian Journal of Diabetes - October 2013 (Vol. 37, Supplement 4, Page S72, DOI:10.1016/j.cjcd.2013.08.220).
55. Tam H*, **Nettel-Aguirre A**, Silvius J, Dalziel W, Drummond N, *A comparative study of dementia-related service provision and configuration in Canada.* Accepted for the 42nd Annual Scientific and Educational Meeting Canadian Association on Gerontology, Halifax, Nova Scotia, October 17 – 19, 2013.
56. Romanow N, Pfister K, Rowe B, Emery CA, Meeuwisse WH, **Nettel-Aguirre A**, Goulet C, Russell K, McRae A, Lang E, Hagel BE. *Risk factors for body region specific injuries in skiers and snowboarders.* British Journal of Sports Medicine 2014; 48:7 654-655 doi:10.1136/bjsports-2014-093494.25.

57. Ruest N, Hagel BE, McCormack GR, **Nettel-Aguirre A**, Rowe BH. *Assessing inter-rater reliability of environmental audit data in a case-control study on bicycling injuries*. Inj Prev 2012; 18:A80. Accepted for the 11th World Conference on Injury Prevention and Safety Promotion, Wellington, New Zealand, October 1st – 4th, 2012.
58. Ruest N, Rowe BH, McCormack GR, **Nettel-Aguirre A**, Hagel BE. *Environmental determinants of bicycling injuries*. Inj Prev 2012; 18:A36. Accepted for the 11th World Conference on Injury Prevention and Safety Promotion, Wellington, New Zealand, October 1st – 4th, 2012.
59. Hui C, **Nettel-Aguirre A**, Goldstein S, Harder J, Kiefer G, Parsons D, Joughin E, Howard J. *Comparison of two different cast materials for the treatment of congenital idiopathic clubfoot using the Ponseti method – a pilot study*. Accepted 2012 International Clubfoot Symposium in Coralville, Iowa, October (Oral presentation) and the 2010 Canadian Orthopaedic Association Annual Meeting, Edmonton AB June 17-20 2010 (Podium presentation by J. Howard). Published in proceedings.
60. Yarema MC, Johnson DW, Sivilotti MLA, **Nettel-Aguirre A**, Victorino C, DeWitt C, Gosselin S, Murphy N, Bailey B, Dong KA, Haney E, Pursell RA, Thompson M, Myers RP, Lord JA, Berlin RJ, Spyker DA, Rumack BH. *Long Live the King! Comparing Prognostic Markers in Acetaminophen Poisoning Fatalities*. Clin Toxicol 2012; 50:276-7.
61. Richmond SA, Emery CA, Doyle-Baker PK, **Nettel-Aguirre A**, Kang J. *Examining a sport injury and obesity intervention program in junior high school*. Clinical Journal of Sport Medicine. May 2012, Volume 22, Issue 3, pages 304-305.
62. Samuel S, Soo A, **Nettel-Aguirre A**, Hemmelgarn B, Tonelli M, Foster B. *Care Environment and avoidable hospitalizations in young dialysis and transplant patients*. Accepted 2012 Canadian Society of Nephrology Annual Meeting in Newfoundland April 27-29, 2012 (Poster Presentation).
63. Rabi Y, **Nettel-Aguirre A**, Singhal N. *Description of delivery room resuscitation interventions for preterm infants*. 2012 April 28-May 1 Pediatric Academic Societies Annual Meeting (Poster Presentation). Publication Number E-PAS 2012. Published in proceedings.
64. Yarema MC, Johnson DW, Sivilotti MLA, **Nettel-Aguirre A**, Victorino C, DeWitt C, Gosselin S, Gee A, Dong KA, Haney E, Bailey B, Pursell RA, Thompson M, Myers RP, Lord JA, Murphy NG, Berlin RJ, Spyker DA, Rumack BH. *Morbidity and mortality from acetaminophen poisoning: A 30-year experience*. Clin Toxicol 2011; 49:591.
65. Khan M, Joughin E, **Nettel-Aguirre A**, Khan A. *Children with multiple fractures have a lower bone mineral density measured by dual x-ray absorptiometry (DXA)*. University of Calgary, Molecular and Genetic Basis of Child Health Retreat, Banff, Alberta, November 2011 (Poster Presentation).

66. Samuel S, Hemmelgarn B, **Nettel-Aguirre A**, Foster B, Soo A, Alexander RT, Tonelli M. *Residence Location and Likelihood of Transplantation among Pediatric Patients with End-Stage Renal Disease*. American Society of Nephrology Kidney Week Meeting, November 11, 2011.
67. Ho J, Huang C, Pacaud D, **Nettel-Aguirre A**. *Insulin detemir in a twice daily insulin regimen versus a three times daily insulin regimen in the treatment of type 1 diabetes in children: A pilot randomized controlled trial*. Accepted 2011 71st American Diabetes Association Scientific Sessions in San Diego, California June 24-28, 2011 (Publication only for the 71st Scientific Sessions). Published in proceedings.
68. Paquette M, Brenner JL, Pim C, Kabakyenga J, Kyomunhangi T, **Nettel-Aguirre A**. *How Do Patterns of Bed Net Use Compare between Communities Receiving Bed Net Distribution & Malaria Education and Control Communities in Rural Southwestern Uganda?* Accepted 2011 Pediatric Academic Societies' & Asian Society for Pediatric Research Joint Meeting in Denver, Colorado April 30 – May 3, 2011 (Poster Presentation). Accepted at 2011 88th Canadian Pediatric Society Annual Conference in Quebec City June 15-18, 2011 (Oral platform Presentation).
69. Samuel S, Tonelli M, Hemmelgarn B, Soo A, **Nettel-Aguirre A**, Alexander RT, Crowshoe L, Foster B. *Incidence of end-stage renal disease among Aboriginal children in Canada*. 2011. Accepted at 8th Conference on Kidney Disease in Disadvantaged Populations Disparities in renal Disease-Moving Towards Solution, Victoria, BC, April 2011 and the World Congress of Nephrology, Vancouver, BC, April 2011 (Poster Presentation).
70. Samuel S, Hemmelgarn B, Alexander RT, **Nettel-Aguirre A**, Foster B, Soo A, Tonelli M. *Association between distance from renal care center and death in pediatric end-stage renal disease patients*. Accepted at the World Congress of Nephrology, Vancouver, BC, April 2011 (Poster Presentation).
71. Richmond S, Emery CA, Doyle-Baker PK, **Nettel-Aguirre A**. *Preventing lower extremity sport injury through a high intensity neuromuscular training program in a junior high school setting*. Br J Sports Med, April 2011, 45(4):313-4.
72. Samuel S, Tonelli M, Foster BJ, **Nettel-Aguirre A**, Alexander T, Soo A, Crowshoe L, Hemmelgarn B. *Death, dialysis and renal transplantation among Aboriginal children with kidney failure in Canada*. 2010 American Society of Nephrology Meeting in Denver, Colorado November 2010 (Poster Presentation).
73. Samuel S, Hemmelgarn B, Tonelli M, **Nettel-Aguirre A**, Soo A, Clark C, Alexander R, Foster B. *Renal allograft loss during transfer of care to adult oriented health care services in Canadian pediatric renal transplant patients*. Accepted Journal of the American Society of Nephrology 2010. 2010 American Society of Nephrology Meeting in Denver, November 2010 (Poster Presentation).

74. Alexander RT, Foster BJ, Tonelli MA, Soo A, **Nettel-Aguirre A**, Hemmelgarn B, Samuel S. *Survival of neonates and toddlers with ESRD*. Accepted at the American Society of Nephrology Meeting, Denver, CO, November 2010.
75. Yarema M, Lucyk S, Johnson D, Sivlotti MLA, **Nettel-Aguirre A**, Victorino C, Spyker D, Bailey B, Dart R, Rumack. *Outcomes of Acute Acetaminophen Overdose Patients Treated With Less than 20 Hours of Intravenous N-Acetylcysteine*. Clin Toxicol 2010; 10:48(6):613. 2010 NACCT meeting, Denver, Colorado October 9, 2010 (Poster presentation by M. Yarema).
76. McIntyre RE, Hardcastle C, Eng RL, **Nettel-Aguirre A**, Urmson C, Lardner DR, Livingstone M, Ewen A, Cox RG. *Effect of dexamethasone on postoperative morbidity after dental rehabilitation in children*. Accepted and published online Can J Anesth/J Can Anesth, (2012) 59:34-40. DOI 10.1007/s12630-011-9616-1. American Society of Anesthesiologists Annual Meeting, San Diego, California, October 2010 (Poster Presentation). 2010 Canadian Anesthesiologists's Society meeting, Montreal, Quebec, June 2010 (Poster Presentation).
77. Greenwood-Lee J, **Nettel-Aguirre A**. *Network evolution: An actor based replicator dynamic model*. 2010 Sunbelt XXX International Network for Social Network Analysis Conference, Riva del Garda, Italy, June 29 – July 4, 2010 (Joint Poster presentation with J. Greenwood-Lee). Published in proceedings.
78. Creighton DE, Robertson CMT, Sauve Reg S., Joffe Ari R, Moddemann Diane M, **Nettel-Aguirre A**, Ross David B, Rebeyka Ivan M and the Western Canadian Complex Pediatric Therapies Follow-up Group. *Emotional, Behavioural and Adaptive Outcomes at 5 Years of Age For Children After Complex Cardiac Surgery at 6 Weeks of Age or Younger*. 2010 Canadian Paediatric Society 87th Annual Conference, Vancouver, BC, June 22-26, 2010 (Poster presentation by D. Creighton).
79. Samuel S, Tonelli M, Foster B, **Nettel-Aguirre A**, Na Y, Williams R, Soo A, Hemmelgarn B. *A New Canadian Pediatric ESRD Research Database*. 2010 Canadian Society of Nephrology Conference, May 29, 2010 (Poster presentation by S. Samuel).
80. Samuel S, Tonelli M, Foster B, **Nettel-Aguirre A**, Na Y, Williams R, Soo A, Hemmelgarn B. *Long-term Outcomes among Canadian Pediatric End-Stage Renal Disease Patients*. 2010 Canadian Society of Nephrology Conference, May 29, 2010 (Oral presentation by S. Samuel).
81. Samuel S, Tonelli M, Foster B, **Nettel-Aguirre A**, Na Y, Williams R, Soo A, Hemmelgarn B. *Performing Clinical Research in Pediatric Nephrology: Using Canadian Registry and Administrative Datasets*. Accepted at the Canadian Society of Nephrology Conference, Montreal, May 2010 (Poster Presentation).

82. Lynch T, Victorino C, Kellner J, **Nettel-Aguirre A**, Williamson J, Klassen TP, Osmond M, Marrie TJ, Johnson DW. *Practice Variation in Canadian Pediatric Emergency Departments in the Management of Respiratory Tract Infections*. 2010 Pediatric Academic Societies Conference, May 4, 2010 (Poster presentation by C. Victorino). Published in Proceedings.
83. Johnson D, **Nettel-Aguirre A**, Williamson J, Klassen TP, Mitton C, Scott S, Williamson T, Craig W, Grimshaw J. *Cluster Controlled Trial Comparing Three Methods of Disseminating Practice Guidelines for Children with Croup*. 2010 Pediatric Academic Societies' Annual Meeting, Vancouver BC May 1-4, 2010. (Poster presentation). Published in proceedings.
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85. Richmond SA, Emery CA, Doyle-Baker PK, **Nettel-Aguirre A**. *Sport Injury and Obesity Prevention Through a High Intensity Neuromuscular Training Program in a Junior High School Setting*. Clin J Sport Med 2010; 20 (3): 228.
86. Russell K, Meeuwisse WH, **Nettel-Aguirre A**, Emery CA, Ruest N, Rowe BH, Goulet C, Hagel BE. *The Relationship Between Injuries and Terrain Park Apparatus Use Among Snowboarders in Alberta*. Clin J Sport Med 2010; 20 (3): 231-32.
87. Yarema M, Johnson D, **Nettel-Aguirre A**, Victorino C, Bailey B, Silvilotti M, Swaminathan S, Spyker D, Berlin R, Purssell R, Thompson M, Rumack B. *Anaphylactoid reactions to intravenous acetylcysteine during treatment for acetaminophen poisoning*. 2009 CAEP (Canadian Association of Emergency Physicians), Calgary, Alberta, June 2009. Can J Emerg Med 2009; 11(3):268. American College of Medical Toxicology Spring Conference, Scottsdale, Arizona, March 2010. (Poster presentation by M. Yarema).
88. Yarema M, Johnson D, **Nettel-Aguirre A**, Victorino C, Bailey B, Silvilotti M, Chen P, Ratana P, Spyker D, Berlin R, Purssell R, Thompson M, Rumack B. *Treatment of acetaminophen poisoning across Canada over a 25-year period*. Accepted for the CAEP (Canadian Association of Emergency Physicians), Calgary, Alberta, June 2009. Can J Emerg Med 2009; 11(3):271. 2010 American College of Medical Toxicology Spring Conference, Scottsdale, Arizona, March 2010. (Poster presentation by M. Yarema).
89. Green J, Yarema M, Johnson D, **Nettel-Aguirre A**, Silvilotti M, Victorino C, Spyker D, Murias K, Rumack B. *Can early acetaminophen concentrations be used to exclude patients from the need for N-acetylcysteine therapy?* Can J Emerg Med 2009; 11(3):280.

(Selected as one of the top 5 resident abstracts at the CAEP 2009 Conference). 2010 American College of Medical Toxicology Spring Conference, Scottsdale, Arizona, March 2010. (Poster presentation by M. Yarema).

90. Hansen G, Joffe A, **Nettel-Aguirre A**, Robertson CMT, Biggs WSG, Ross DB, Rebeyka IM, *Two-Year Neurodevelopmental Outcome after C Resuscitation in Neonatal Patients Post Open Heart Surgery*. 2010 Society of Critical Care Medicine 39th Critical Care Congress, Miami, Florida USA Jan 2010 (Poster presentation by A. Joffe).
91. Twele L (Co-PI), Kellner JD (Co-PI), Reslan A, Belanger F, **Nettel-Aguirre A**, *Has the 7- Valent Pneumococcal Conjugate Vaccine (PCV7) Reduced Hospital Visits and Admissions for Pneumonia in Young Children in Calgary?* International Journal of Antimicrobial Agents July 2009; 34:S5-S6. 2009 26th International Congress of Chemotherapy and Infection, Toronto ON June 2009. (Poster presentation by L. Twele).
92. Yarema M, Johnson D, Berlin R, **Nettel-Aguirre A**, Brant R, Silvilotti M, Spyker D, Rumack B for the CAOS Group. *The 72 hour oral versus the 20 hour intravenous N-acetylcysteine protocols for treatment of acute acetaminophen overdose*. 2009 CAEP (Canadian Association of Emergency Physicians), Calgary, Alberta, June 2009. Accepted as program number 323 for the NACCT 06. Presented at the October meeting in San Francisco, California USA. Clin Toxicol 2006, 44(5):782. (Presented by M. Yarema). To be published in the Canadian Journal of Emergency Medicine.
93. Yarema M, Johnson D, Berlin R, Silvilotti M, **Nettel-Aguirre A**, Brant R, Spyker D, Bailey B, Chalut D, Lee J, Plint A, Purssell R, Rutledge T, Seviour C, Stiell I, Thompson M, Tyberg J, Dart R, Rumack B. *Comparison of the 20-hour intravenous and 72-hour oral acetylcysteine protocols for the treatment of acute acetaminophen poisoning*. 2009 CAEP (Canadian Association of Emergency Physicians), Calgary, Alberta, June 2009. Program number 323 for the NACCT 06. Presented at the October meeting in San Francisco, California USA. Clin Toxicol 2006; 44(5):782. (Presented by M. Yarema). Published Can J Emerg Med 2009; 11(3):275.
94. Richmond SA, Emery CA, Doyle-Baker PK, **Nettel-Aguirre A**, *Examining the effectiveness of a combined obesity and sport injury prevention program in junior high school; a pilot project*. Clinical Journal of Sport Medicine. May 2009, Volume 19, Issue 3, Page 250.
95. Rabi Y, **Nettel-Aguirre A**, Singhal N, *Room Air Versus Oxygen Administration During Resuscitation of Preterm Infants (ROAR Study)*. Presented at PAS 2008, Late Breaker Session, Hawaii. Published in proceedings. (Presented by Y. Rabi). And also presented at the 85th Annual CPS Conference, Victoria, British Columbia, Canada, June 24-28, 2008. Published in proceedings (Presented by Y. Rabi).
96. Miettunen PM, **Nettel-Aguirre A**, Kellner JD, *Height and weight development following cyclical intravenous pamidronate in children and adolescents with chronic recurrent multifocal osteomyelitis (CRMO)*. Accepted for TRIPR Conference (Genoa, Italy, May

29-June 1, 2008). Published in Proceedings. 2008 ACR (American College of Rheumatology) San Francisco, November 2008. Published in Proceedings.

Also accepted for PRES (Paediatric Rheumatology European Society) and in published Paediatric Rheumatology 2008, **6**(Suppl 1):P187. Can be found online at <http://www.ped-rheum.com/content/6/S1/P187>.

97. Punsalan P, **Nettel Aguirre A**, Alfaro L, Parsons D, Hamiwka L, Howard J, *Intra-operative Stimulus-Triggered Electromyographic Monitoring (ISTEM) For Evaluation of Pedicle Tract Integrity In Paediatric Spinal Deformity*. Presented at the Canadian Spine Society March 2008. Can J. Surg 2008; 51 (Supp):16. (Presented by P. Punsalan).
98. Russell K, **Nettel-Aguirre A**, Goulet C, Pless IB, Hagel BE. *Neck injury risk and helmet use in pediatric skiers and snowboarders*. Presented at the 9th World Conference on Injury Prevention and Safety Promotion Merida, Mexico, March 2008. Published in Proceedings (Presented by K. Russell). Also presented at the Canadian Injury Prevention and Safety Promotion, Toronto, Canada, November 2007. Published in Proceedings. (Presented by K. Russell).
99. Barlow KM, Stevenson AS, Latter J, Hagel B, Crawford S, **Nettel-Aguirre A**, Dewey D. *The Epidemiology of Post-concussion Syndrome in Children Following Traumatic Brain Injury: A Preliminary Report*. Presented at the ANA and CNS Meeting October 2007. Annals of Neurology 2007, Volume 62, Issue S11, Pages S123 (Poster presentation KM Barlow).
100. Rabi Y, Singhal N, **Nettel-Aguirre A**, Yee WH, Proud D. *Effect of Oxygen Exposure during Newborn Resuscitation on Lung Injury*. Presented at the 84th CPS Meeting, June 26-30, 2007, Montreal, Quebec. Published in proceedings. (Presented by Y. Rabi). Also presented at the Paediatric Academic Societies' Annual Meeting May 5–8, 2007, Toronto, Canada, Publication 5894.7. (Presented by Y. Rabi).
101. Joynt C, Robertson C, Cheung PY, Sauvé R, Joffe A, **Nettel-Aguirre A**, Rebeyka I, Ross D, *Neurodevelopmental and Health Outcomes of Neonates Undergoing Intracardiac Repair for Interrupted Aortic Arch: A Descriptive Analysis*. Presented at the Paediatric Academic Societies' Annual Meeting, May 5–8, 2007, Toronto, Canada, Publication 5896.17. Published in Proceedings. (Presented by C. Joynt).
102. Atallah J, Robertson C, Joffe A, Sauvé R, Harder J, Seshia M, **Nettel-Aguirre A**, Ross D, Rebeyka I. *Two-Year Neurodevelopmental Outcome After The Norwood Procedure: A Comparison Between The BT And The RV-PA Surgical Groups*. Accepted in Sep 06 for the Society of Thoracic Surgeons meeting in Jan 07. Published in proceedings. (Poster presentation by J. Atallah).
103. Atallah J, Joffe A, Robertson C, Leonard NJ, Blakely P, **Nettel-Aguirre A**, Sauvé R, Ross D, Rebeyka I and the Western Canadian Complex Paediatric Therapies Follow-up Group. *Two Year Neurodevelopmental Outcome after Neonatal Open Heart Surgery in Patients with Deletion 22q11.2: A Comparative Study*. Accepted to Canadian Cardiology

Association, for the annual meeting 10/06; and for the Richard Rawe Competition. (Presented by J. Atallah).

104. Roessingh H, Ehlers P, Watt D, and **Nettel-Aguirre A**. *ESL students in tertiary education programs: An exploratory study at the University of Calgary*. Presented by Roessingh at ATESL (Alberta Teachers of English as a Second Language). 10/. 2004. Edmonton, Alberta. Annual Conference and at ATA ESL-C (Alberta Teachers Association: English as a Second Language Council),11/. 2004. Canmore, Alberta. Annual Conference.

Non-peer reviewed manuscripts/technical reports published

1. Branson L, Latter J, Currie G, **Nettel-Aguirre A**, Embree T, Hagel, B. Impact attenuation of Calgary and area elementary school playground surfaces. Report submitted to a Calgary Area School District, October, 2010.
2. Youzwishen OO, Van Aelst A, **Nettel-Aguirre A**, Ehlers P. *A Statistical Risk Model to Estimate the Occurrence of SCC*. Presented by Youzwishen at the International Pipeline Conference 2004, Calgary, Alberta. Published in proceedings of NACE's Corrosion 2004.
3. Cojocar M, Ganjali Y, Jeon S, Mohammadalikhani R, Navasca C, **Nettel-Aguirre A**, Packer A, Summer S. *Web Hosting Service Level Agreement*. Proceedings of PIMS Graduate Math Modelling Camp, Canada 2001.
4. Aggarwala R, Alberts T, Bose T, Driga A, Espeset A, Harlim J, Jeon J, Jeon S, Katatbeh Q, Kolasa L, Leok M, Mahmoud M, Meza R, **Nettel-Aguirre A**, Popescu C, Pyke R, Carrasco Teja M. *An Automated Algorithm for Decline Analysis*. Proceedings of PIMS 5th Industrial Problem Solving Workshop, Canada 2001.
5. Álvarez-Tostado M, Figueroa L, **Nettel-Aguirre A**. *Métodos estadísticos para pronósticos con datos incompletos. (Statistical Methods for predictions with missing data)*. Memorias del Primer Taller de Modelación Matemática para Estudiantes, Mayo 1994 (Memoirs of the First Mathematical Modelling Workshop for Students May 1994)- The Mexican Mathematical Society, Mexico D.F. Mexico.

Ongoing research involvement

1. **Nettel-Aguirre A**, McCormack G, Genereux N, Lupien S, Hawe P, *Health Impact of Unexpected School Closure*.
2. Kirton A, Massicotte P, deVeber G, Hill M, Demchuk A, **Nettel-Aguirre A**, Barlow K. *Modulation of brain plasticity after perinatal stroke*.
3. Yarema M, Johnson DW, Silvilotti M, Bailey B, Lord J, **Nettel-Aguirre A**, Victorino C, Haney E, Gee A, Gosselin S, Spyker D, Berlin R, Pursell R, Thompson M, Rumack B. *Deaths In Patients Hospitalized For Acetaminophen Poisoning In Canada From 1980-2005*.

4. Yarema M, Johnson DW, Silvilotti M, **Nettel-Aguirre A**, Victorino C, Swaminathan S, Bailey B, Spyker D, Berlin R, Purssell R, Thompson M, Rumack B. *Anaphylactoid Reactions To Intravenous N-Acetylcysteine During Treatment For Acetaminophen Poisoning*.

Communications – published

1. Yarema MC, Johnson DW, **Nettel-Aguirre A**, Silvilotti M L.A. *Reply to Letters to the Editor by Gupta et al (#2009-779R1) and Hernandez et al. (#2009-768) regarding “Comparison of the 20-Hour Intravenous and 72-Hour Oral Acetylcysteine Protocols for the Treatment of Acute Acetaminophen Poisoning”*. (Letter) *Annals of Emergency Medicine* December 2009; 54(6):858.

Communications – unpublished

- 12/05 Chipman H, **Nettel-Aguirre A**. *Data Mining Methods for Transactional GraphData*. Technical report submitted to CSE as part of research contract and postdoctoral fellow project.

Oral Presentations

- 06/16 **Complexity in injury prevention and potential Statistical/Data mining tools to deal with it**
50th Anniversary Injury Prevention Research Workshop
Faculty of Kinesiology
University of Calgary
June 20, 2016
Calgary, Alberta
- 06/16 **Curso en Introducción a la minería de datos (Introduction to Data Mining) Curso invitado en la 9a semana internacional de probabilidad y estadística (Invited short course at the 9th international Week of probability and Statistics)**
Benemerita Universidad de Puebla
June 13-17, 2016
Puebla Mexico
- 08/07 **Nuclei Shape Analysis, A statistical approach**
The 12th International Congress for Stereology
Saint-Etienne, France

- 04/06 **Nuclei shape analysis**
 Children Health Research Group rounds, Paediatrics Department
 Alberta Children's Hospital, Calgary, Alberta. Invited
- 11/05 **Social Network Models (latent space models in particular)**
 National Program on Complex Data Structures subproject meeting
 Fields Institute, Toronto, Ontario. Invited
- 05/05 **Nuclei Shape Analysis (a functional data approach)**
 Mathematics and Statistics Department Seminar
 Acadia University, Wolfville, Nova Scotia. Invited
- 10/02 **Times and life of R.A. Fisher**
 Alberta Statisticians Annual Meeting; University of Alberta
 Edmonton, Alberta
- 10/98 **A problem on Calibration**
 Alberta Statisticians Annual Meeting; University of Alberta
 Edmonton, Alberta.

Poster Presentations

- 07/10 **Network evolution: An actor based replicator dynamic model**
 2010 Sunbelt XXX International Network for Social Network Analysis
 Conference
 Riva del Garda, Italy
- 01/07 **Nuclei Shape Analysis (updated)**
 Hawaii 6th International Conference on Mathematics, Statistics & Related
 Fields
 Waikiki, Hawaii
- 05/05 **Nuclei Shape Analysis**
 MITACS 6th Annual Meeting, Calgary, Alberta
Awarded 2nd Prize Best Poster Presentation
- 05/05 **Dynamic Graphs in a Communication Networks**
 MITACS 6th Annual Meeting, Calgary, Alberta
- 05/02 **Case study II: Analysis of recurrence of Cervical Cancer**
 30th Annual Meeting of the Statistical Society of Canada
 McMaster University, Hamilton, Ontario.

XI. EDUCATIONAL ACTIVITIES (Courses Delivered)**Attachment: Teaching Dossier**

Term	COURSE	Type	No. of sections
Fall 2005	MATH 2213	Lecturer, Tutorial and Marking	1
Spring 2004	STAT 217	Lecturer, Tutorial and Marking	1
Summer 2003	AMAT 219	Lab, Tutorial and Marking	1
	MATH 323	Tutorial and Marking	1
Winter 2003	MATH 249	Lab and Marking	2
	STAT 211	Tutorial and Marking	2
	MATH 249/251/253	Continuous Lab	1
Fall 2002	STAT 213/217	Continuous Lab	1
	STAT 211	Tutorial and Marking	1
	MATH 249/251/253	Continuous Lab	2
Summer 2002	AMAT 219	Lab, Tutorial and Marking	1
Winter 2002	MATH 249	Lab and Marking	2
	STAT 211	Tutorial and Marking	2
	STAT 213/217	Continuous Lab	1
Fall 2001	MATH 249	Lab and Marking	5
	STAT 213/217	Continuous Lab	1
Summer 2001	AMAT 219	Lab, Tutorial and Marking	1
Winter 2001	STAT 213	Lab and Marking	2
	STAT 213/217	Continuous Lab	2
	STAT 217	Lab and Marking	1
Fall 2000	STAT 213	Lab and Marking	1
	STAT 213/217	Continuous Lab	3
Fall 1999	STAT 211	Tutorial and Marking	2
	STAT 333	Lab and Marking	2
Winter 2000	STAT 211	Tutorial and Marking	2
Summer 2000	AMAT 219	Lab, Tutorial and Marking	1
Spring 1999	STAT 211	Tutorial and Marking	1
	STAT 217	Lab and Marking	1
Summer 1999	MATH 323	Tutorial and Marking	1
Winter 1999	STAT 211	Tutorial and Marking	2
	STAT 213/217	Continuous Lab	2
	STAT 357	Tutorial and Marking	2
Fall 1998	STAT 211	Tutorial and Marking	2
	STAT 213/217	Continuous Lab	3
	STAT 333	Lab and Marking	1
Fall 1997	STAT 213	Lab and Marking	4
	STAT 213/217	Continuous Lab	1
Winter 1998	STAT 213	Lab and Marking	1
	STAT 217	Lab and Marking	2
Spring 1998	STAT 211	Tutorial and Marking	1
	STAT 217	Lab and Marking	1

V. EDUCATIONAL ACTIVITIES (*Courses Delivered*)

Attachment: Teaching Dossier

Course Descriptions:

Kinesiology/Nursing 609 Statistical Techniques in Kinesiology/Nursing

Basic concepts of statistical analysis as they apply to research methods used in various disciplines in kinesiology.

STAT 211, Concepts of Statistics

Concepts of experiment design, exploratory data analyses, descriptive statistics. Basic concepts of: probability, inferential statistics, correlation and regression. This course is a requirement for students in the Nursing and Kinesiology programs.

STAT 213. Introduction to Statistics I

Collection and presentation of data, introduction to probability, including Bayes' law, expectations and distributions. Properties of the normal curve. Introduction to estimation and hypothesis testing.

This course is required for Business and Economics students.

STAT 217, Introduction to Statistics II

Estimation of population parameters; confidence intervals; tests of hypotheses. The Chi-squared tests for association and goodness-of-fit. Regression and correlation and inference on these. Non-parametric methods and tests.

This course is required for Business and Economics students.

STAT 333 Statistics for the Life Sciences

Exploratory data analysis, relationships between variables, elementary probability, random variables, statistical inference, application of statistical methods to medical and biological problems.

This course is taken by: Nursing, Kinesiology and Social Sciences students.

STAT 357 Statistics for Physical Sciences

Introduction to the basic notions of probability, including Bayes' Law. Discrete and continuous distributions and their generating functions. Point estimates and confidence intervals. Regression analysis Acceptance sampling plans.

MATH 2213 (Acadia)

Descriptive statistics, combinatorics, probability spaces, random variables, probability modeling, discrete and continuous distributions, joint distributions, covariance, correlation, sampling distributions, central limit theorem, simple linear regression

MATH 249. Introductory Calculus

Algebraic operations. Functions and graphs. Limits, derivatives, and integrals of exponential, logarithmic and trigonometric functions. Fundamental theorem of calculus. Applications.

Required course for Economics and Business students, amongst others.

MATH 251 Calculus I

Functions and graphs, transcendental functions. Limits, derivatives, and integrals of exponential, logarithmic and trigonometric functions. Fundamental theorem of calculus. Applications.

Required course for Economics and Business students, amongst others.

MATH 323 Intro to Mathematical Statistics

Bivariate distributions. Sampling distributions. Chi-squared, F and t distributions. Estimation. Hypothesis tests (proportions, means, variance, chi-square). Method of moments. Maximum likelihood estimators. Neyman-Pearson lemma. Likelihood ratio tests. Elementary regression and correlation.

Required course for Statistics and Actuarial Sciences students.

AMAT 219 Multivariable Calculus for Engineers

Techniques of integration, double and triple integrals, partial derivatives, applications.