

CNODES Semi-Annual Meeting, November 4-5, 2019

Monday November 4, 2019 ***All meetings will take place at the INN AT LAUREL POINT – Victoria, BC *** 680 Montreal Street, Victoria, British Columbia, V8V 1Z8, Canada			
Time	Session	Attendees	
7:30	Breakfast Location: Spirit CD	ALL	
8:30 - 10:30	Q19-05: Hydrochlorothiazide Project Team Meeting Location: Spirit AB	Project Team Members Only Site Leads are encouraged to attend	
10:30 - 10:45	Coffee Break Location: Foyer	ALL	
10:45 – 12:00	Common Data Model Working Group Meeting Location: Spirit AB	Team Members Only Site Leads are encouraged to attend	
12:00 – 13:15	Special Lunch Presentation! "Assessing the Performance of High Dimensional Propensity Scores in a Pharmacoepidemiology Setting" Led by: Naomi Hamm, University of Manitoba Location: Spirit CD	ALL	
13:15 – 14:30	CNODES Lecture "Bayesian Analysis of Epidemiological Data with Multiple Predictor Variables" Led by: Dr. Lawrence McCandless, Simon Fraser University Location: Spirit CD	ALL	
14:30 – 14:45	Coffee Break Location: Foyer	ALL	
14:45 – 16:00	Knowledge Translation Team Meeting Location: Spirit AB	Team Members Only Site Leads are encouraged to attend	
16:00 – 17:15	Training Team Meeting Location: Spirit AB	Team Members Only Site Leads are encouraged to attend	
17:15 – 18:30	SOCIAL HOUR! If you're still in town, meet us at the Aura situated in the main lobby!	ALL	

*Separate agendas will follow



CNODES Semi-Annual Meeting, November 4-5, 2019

Tuesday November 5, 2019 ***All meetings will take place at the INN AT LAUREL POINT – Victoria, BC *** 680 Montreal Street, Victoria, British Columbia, V8V 1Z8, Canada				
Time	Session	Attendees		
8:00	Breakfast Location: Spirit AB	ALL		
9:00 - 10:30	Analyst Workshop "Introduction to R: Fundamentals and Data Manipulation" Led by: Kathryn Morrison, McGill University Location: Spirit CD	ALL		
10:30 - 10:45	Coffee Break Location: Foyer	ALL		
10:45 – 12:00	Analyst Workshop (continued) "Introduction to R: Fundamentals and Data Manipulation" Led by: Kathryn Morrison, McGill University Location: Spirit CD	ALL		
12:00 - 13:00	Lunch Location: Spirit AB	ALL		
13:00 – 15:00 Concurrent Meetings	Analyst session "Good Programing Practices (GPP)" Led by: Sophie Dell'Aniello, CNODES Analyst Group Coordinator During this Analyst Session on GPPs, we will be using a collaborative approach to discuss and share the best practices used by CNODES members in their daily work. Location: Spirit AB	Analysts Only		
	Steering Committee Meeting Location: Spirit CD	SC Members Only		
15:00 - 15:15	Coffee Break Location: Foyer	ALL		
15:15 – 17:00	Steering Committee Meeting (continued) Location: Spirit CD	SC Members Only		

*Separate agendas will follow

ADDITIONAL SESSION Wednesday November 6, 2019				
Time	Session	Attendees		
8:00 – 16:00	Analyst Training Program Working Session Led by: Dana Stanley, CNODES Training Team Coordinator This 1-day collaborative working session is devoted to the development of the Analyst Training Program (ATP). Location: Merino	Analysts and Trainees *Breakfast, Lunch and Coffee Breaks will be served		



TRAINEE PRESENTATION A Methods and Training Team Initiative

Naomi Hamm Monday, November 4, 2019

Inn at Laurel Point – Victoria, BC 12:00 PM – 1:15 PM, Room: Spirit C/D

Assessing the Performance of High Dimensional Propensity Scores in a Pharmacoepidemiology Setting



Naomi Hamm is a PhD Candidate in Community Health Sciences at the University of Manitoba. She is also a trainee of the Visual and Automated Data Analytics program and completed a CNODES internship with Dr. Dan Chateau during summer 2019. Her research focuses on epidemiology methods using administrative health data.

High Dimensional Propensity Scores (HDPS) are growing in popularity among observational health studies in part because they are intended to account for unmeasured confounding. However, it is unclear to what extent HDPS are able to attain this.

This session will provide an overview of HDPS and its application in pharmacoepidemiology. Methods and results from a CNODES methods project will also be presented. This project looked at prescription medication use during pregnancy on short- and long-term infant outcomes to assess the ability of HDPS to adjust for socioeconomic factors (i.e., social determinants of health) when using health data.



CNODES LECTURE A Methods and Training Team Initiative

Lawrence McCandless Monday, November 4, 2019

Inn at Laurel Point – Victoria, BC 1:15 PM – 2:30 PM, Room: Spirit C/D

Bayesian Analysis of Epidemiological Data with Multiple Predictor Variables



Dr. Lawrence McCandless is an accomplished scholar in the field of epidemiology and biostatistics. His research focuses on the fields of environmental epidemiology, child health research, and mental health. Dr. McCandless' methodological expertise lies in the area of epidemiological data analysis and Bayesian statistics. He collaborates extensively both nationally and internationally, and is passionate about training students in quantitative methods.

Bayesian statistics is an approach to data analysis where uncertainty in the results is expressed as probability statements about population quantities (e.g. the Relative Risk). Rather than declaring a result to be statistically significant or nonsignificant, we calculate the probability that a result has a particular size and direction. Thus Bayesian statistics has the advantage that it gives a fuller description of the relationships within the data. This is particularly useful in epidemiological studies with multiple predictor variables where there a rare and weak effects. To do a Bayesian analysis, we can use a powerful new type of computer software called Stan which is easy to implement in R (see http://mc-stan.org).

In this presentation, Dr. McCandless will describe examples of Bayesian statistics in environmental and perinatal epidemiology drawing on collaborative work with colleagues in the Faculty of Health Sciences at Simon Fraser University.



CNODES WORKSHOP A Methods and Training Team Initiative

Kathryn Morrison Tuesday, November 5, 2019

Inn at Laurel Point – Victoria, BC 9:00 AM – 12:00 PM, Room: Spirit A/B

Introduction to R: Fundamentals and Data Manipulation



Dr. Kathryn Morrison's background is in statistics and epidemiology. Kathryn has worked on projects across the range of drug development, from basic science and genomic data to clinical research and post-market data. She is the CTO of Precision Analytics and a coorganizer of the R-Ladies Montreal chapter. She is an avid R programmer and strong proponent of reproducible research practices.

R is an open source programming language designed primarily for data analysis. In this course, we will briefly cover how the R programming language differs from other statistical languages such as SAS and other traditional programming languages such as python. We will then learn how to import data in various formats, how to use libraries, how to manipulate data using dplyr and how to make beautiful graphics using ggplot and plotly. The course will be a combination of lectures and interactive programming exercises through an RStudio server interface. We will wrap up with a summary of more advanced R topics and where to find more information and tools for learning.