

Research Course 2022 Schedule																						
MONDAY: 24-Oct-22 - In-Person					TUESDAY: 25-Oct-22 - In-Person				WEDNESDAY: 26-Oct-22													
Time	Time	Speaker	Topic	Objectives	Time	Speaker	Topic	Objectives	Time	Speaker	Topic	Objectives										
08:00																						
08:15																						
08:30																						
08:45									08:30-09:30		Grand Rounds Need to Register to attend Zoom											
09:00	09:00-09:45	Course Committee	Welcome/ Define Expectations/ Objectives	1) Overview of Process 2) Course Expectations <b>**only mandatory for residents who have not attended the Welcome Session previously</b>	09:00-11:00 CR4	Dr. Anna Funk	Study Design and Analysis: Types of Data	1) Types of data a) Categorical (nominal, ordinal) b) Numerical (discrete, interval) 2) Measures of central tendency 3) Data Presentation and Graphical Analysis	9:30-11:30 Zoom ID: 978 7686 1251 Passcode: 259339	Caitlin McClurg	Searching the Medical Literature for Evidence Based Practice	Need Unicaard Objectives: 1)Awareness of available library services and tools through Libraries & Cultural Resources 2)Discover more about predatory publishers 3)Identify different literature review types 4)Formulate a research question 5)Uncover distinct elements of their research topic using question frameworks 6)Engage with OVID Medline										
09:15	CR4																					
09:30																						
09:45	09:45-12:15 CR4	Dr. Brent Hagel	Study Design and Analysis: Overview of Design	Overview of study designs 1) Descriptive studies 2) Analytic Studies 3) Break (15 minutes) 4) Classifying study designs exercise 5) Report back to group																		
10:00																						
10:15																						
10:30																						
10:45																						
11:00																						
11:15																						
11:30					Lunch and work on project																	
11:45																						
12:00																						
12:15	Lunch								12:00-13:15 Zoom ID: 978 7686 1251 Passcode: 259339	Dr. Jennifer Thull-Freedman	Quality Improvement Methodology	This session will provide learners with a basic understanding of how to plan a quality improvement project including: 1) What is quality improvement science and how is it different from research? 2) How QI projects are organized? 3) How are ethical considerations addressed? 4) How is data analyzed and presented? 5) What factors should be considered in planning a publication in QI?										
12:30																						
12:45																						
13:00	13:00-14:00	Dr. Adam Kirton	How to Define a Research Question	1) How to write a clear research question 2) Give a checklist to help define research focus 3) Give child health examples of research questions	12:30-14:30 CR4	Dr. Gerry Giesbrecht	Study Design and Analysis: Statistics Lecture	Statistics lecture 1) Hypothesis testing and estimation (emphasis on estimation and CI's) 2) Proportions (1 and 2 sample) 3) Means (1 and 2 sample)	13:15-14:00 Zoom ID: 978 7686 1251 Passcode: 259339	Dr. Jennifer Thull-Freedman	EPIQ Workshop Planning Session	Pre-workshop material overview and Group Project selection										
13:15	CR4																					
13:30																						
13:45																						
14:00	14:00-16:00 CR 5, 7, 8, 9, 14	Small Group	Session 1 Small Group 1: CR 8 Small Group 2: CR 5 Small Group 3: CR 7 Small Group 4: CR 14 Small Group 5: CR 9	Focus on getting acquainted and critiquing each other's research question/project aim																		
14:15																						
14:30																						
14:45																						
15:00																						
15:15																						
15:30																						
15:45																						
16:00					15:00-17:00 CR4	Dr. Susa Benseler	Essentials of Grant Writing/Pitfalls	Developing a Research Proposal.	14:30-16:30 Zoom ID: 978 7686 1251 Passcode: 259339	Dr. Brent Hagel	Study Design and Analysis: Cohort Studies	Cohort studies 1) Principles of design and threats to validity 2) Exercise on study design – single topic 3) Break 4) Report back to group 5) Principles of analysis with review of results section from article										
16:15																						
16:30																						
16:45																						
17:00																						

Research Course 2022 Schedule

Research Course 2022 Schedule																				
MONDAY: 31-Oct-22					TUESDAY: 1-Nov-22 - In-Person				WEDNESDAY: 2-Nov-22											
Time	Time	Speaker	Topic	Objectives	Time	Speaker	Topic	Objectives	Time	Speaker	Topic	Objectives								
08:00	08:00-14:30 (Includes break and 30 minute lunch) Zoom info in registration confirmation Zoom ID: 940 1829 6312 Passcode: 554256	EPIQ Group Dr. Ayman Abou Mehram	EPIQ Workshop	The EPIQ Workshop aims to train physicians and other healthcare providers in quality improvement methods using hands-on approach that enables teams to implement quality improvement together. In this workshop you will learn: 1) Why improvement science is valuable in health care and everyday life. 2) Gain expertise on the QI process and understand how to implement it in your context. 3) Establish a stronger understanding of your opportunities for change. 4) Break down implementation into achievable steps. 5) Get a handle on the logistics: plans, team creation, measurement, and more.	08:30-09:30 CR4	Dr. Mary Dunbar	Study Design and Analysis: Diagnostic Studies	1) Understand the issues in the evaluation of a diagnostic test 2) Appreciate components of evaluating test performance 3) Precision and accuracy 4) Sensitivity and specificity - likelihood ratio/ positive and negative predictive values/ receiver operating characteristic (ROC) curves/ additional factors: cost, availability, acceptability, utility	08:30-09:30	Grand Rounds  Need to Register to attend Zoom										
08:15																				
08:30																				
08:45																				
09:00																				
09:15																				
09:30																				
09:45																				
10:00													Break				09:30-11:30 Zoom ID: 972 3961 9347 Passcode: 072571	Dr. Anna Funk	Study Design and Analysis: Randomized controlled trials	Randomized controlled trials 1) Principles of design and threats to validity 2) Exercise on study design – single topic 3) Break (15 minutes) 4) Report back to group 5) Principles of analysis with review of results section from article
10:05																				
10:10																				
10:15																				
10:20																				
10:25																				
10:30													10:00-12:00 CR 4	Dr. Susa Benseler	A Housewife's Guide to Paper Writing	1) To review the specific prep-work required to get started on scientific manuscript writing 2) To conceptualize and structure the core components of scientific manuscripts including text and tables/figures 3) To build a transferable, fool-proof recipe for manuscript writing for people with multiple responsibilities (i.e. working parents) and little time				
10:35																				
10:40																				
10:45																				
10:50																				
10:55																				
11:00	Lunch																			
11:05																				
11:10																				
11:15																				
11:20																				
11:25																				
11:30	Registration information to come	Dr. Karen Kam	Introduction to Health Economics	1) Why is health economics alongside clinical research useful? 2) Introduction to costing studies 3) Introduction to measuring benefits for economic studies 4) Combining costs and outcomes to aid in decision making	Lunch and Work on Project															
11:35																				
11:40																				
11:45																				
11:50																				
11:55																				
12:00								Break												
12:05																				
12:10																				
12:15																				
12:20																				
12:25																				
12:30								14:30-16:00 CR4	Nicole Romanow	Getting the Green Light: Requirements for REB and AHS approval processes	1) Practical session on how to submit an ethics application online using the IRISS platform 2) Overview of the process/requirements for obtaining approval to conduct research using AHS resources	14:30-16:30 Zoom - See group schedule	Small Group	Session 3	1) Review progress to date 2) Discuss specific issues related to each research project					
12:35																				
12:40																				
12:45																				
12:50																				
12:55																				
13:00	Work on Project																			
13:05																				
13:10																				
13:15																				
13:20																				
13:25																				
13:30																				
13:35																				
13:40																				
13:45																				
13:50																				
13:55																				
14:00																				
14:05																				
14:10																				
14:15																				
14:20																				
14:25																				
14:30	ASSIGNMENT 1 DUE																			

Research Course 2022 Schedule

MONDAY: 7-Nov-22 - Zoom/In Person					TUESDAY: 8-Nov-22				WEDNESDAY: 9-Nov-22				THURSDAY: 10-Nov-22				FRIDAY: 11-Nov-22 - STAT			
Time	Time	Speaker	Topic	Objectives	Time	Speaker	Topic	Objectives	Time	Speaker	Topic	Objectives	Time	Speaker	Topic	Objectives	Time	Speaker	Topic	Objective
08:00	Work on Project				Work on Project <b>Meet with Supervisor</b> (Please book 1 hour meeting in advance)				Poster Title Due				Work on Project <b>Meet with Supervisor</b> (Book 1 hour meeting in advance)							
08:15																				
08:30																				
08:45																				
09:00	09:00-09:45	Dr. David Johnson	Working with Administrative Data	1) Avoid health administrative/EMR studies 2) Consider health record audits but ensure they are reasonable in scope	10:00-11:30 Zoom ID: 963 2283 2141 Passcode: 796879  Dr. Jeffrey Lin Applications of Simulation-based Research in Pediatrics 1) Describe the benefits of simulation-based research 2) List the 2 different categories of simulation-based research, and provide specific examples from the pediatric literature. 3) Describe the various threats to internal validity of simulation-based research studies, and outline ways to mitigate these threats 4) Identify a way simulation-based research could be used to address a research question in your field/specialty				08:30-09:30	Grand Rounds			09:30-11:30 Zoom - See Group Schedule  Small Group Session 5 Critical Appraisal							
09:15	Zoom ID: 995 7304 7441																			
09:30	Passcode: 214002																			
09:45	Break																			
10:00	10:00-11:00	Dr. Gerry Giesbrecht	Creating Posters: The good, the bad and the ugly	Basics of what to include on a research poster and tips on presenting	12:00-14:00 Zoom ID: 963 2283 2141 Passcode: 796879  Dr. Julie Lauzon & Dr. Stacey Page Ethical Issues: 1) Health Information Act 2) Ethics and Research  <a href="https://tcps2core.ca/welcome">Required Reading: TCPS – statement and tutorial - https://tcps2core.ca/welcome</a>  For the required reading portion, Dr. Lauzon requires that each participant MUST submit the certificate once the tutorial is completed. Each small group must select one resident to present their research idea for discussion of ethical implications.				10:30-12:30	Zoom ID: 939 5443 7226 Passcode: 531653	Dr. Brent Hagel	Study Design and Analysis: Case Control Studies	Case-control studies 1) Principles of design and threats to validity 2) Exercise on study design – single topic 3) Break (15 minutes) 4) Report back to group 5) Principles of analysis with review of results section from article	Resident Academic Half Day						
10:15	Zoom ID: 995 7304 7441																			
10:30	Passcode: 214002																			
10:45	Break																			
11:00	11:00-12:00	Jenna Slobozian & Brandi Povitz	Budget and Timeline	1) Project Planning and Timelines 2) Budgeting 3) Budget Justification	Lunch and Work on Project				Lunch and Work on Project				Stat - Remembrance Day							
11:15	Zoom ID: 995 7304 7441																			
11:30	Passcode: 214002																			
11:45	Break																			
12:00	Lunch and Work on Project				12:00-14:00 Zoom ID: 963 2283 2141 Passcode: 796879  Dr. Julie Lauzon & Dr. Stacey Page Ethical Issues: 1) Health Information Act 2) Ethics and Research  <a href="https://tcps2core.ca/welcome">Required Reading: TCPS – statement and tutorial - https://tcps2core.ca/welcome</a>  For the required reading portion, Dr. Lauzon requires that each participant MUST submit the certificate once the tutorial is completed. Each small group must select one resident to present their research idea for discussion of ethical implications.				Lunch and Work on Project				Resident Academic Half Day							
12:15	13:00-15:00 CR 5, 8, 9, 13, 14 Small Group																			
12:30																	Session 4 Small Group 1: CR 8 Small Group 2: CR 5 Small Group 3: CR 13 Small Group 4: CR 14 Small Group 5: CR 9  1) Discussion of each member's project focusing on analysis and sample size calculation 2) Assistance with sample size calculations and analysis			
12:45																				
13:00					15:00-16:30 CR 4 Dr. Adam Kirton Practical Tips for Recruitment 1) Selecting your participants 2) Recruitment procedures  1) Develop the ability to select a sample population. 2) Optimize recruitment plan for your study. 3) Demonstrate the feasibility of your recruitment plan.															
13:15	Work on Project																			
13:30									15:00-~16:30 Zoom ID: 939 5443 7226 Passcode: 531653  Dr. Katie Chaput Extra Qualitative Session  *Only residents doing qualitative studies											
13:45													ASSIGNMENT 2 DUE							
14:00																				
14:15																				
14:30																				
14:45																				
15:00																				
15:15																				
15:30																				
15:45																				
16:00																				
16:15																				
16:30																				
16:45																				
17:00																				

**Assignment 2: Background, Methods, and Outcome Measures**

- Must be handed in via email by 1700 to:  
 1) Your Small Group Preceptors  
 2) Your project supervisor  
 3) Course coordinator (jolene.haddad@ahs.ca)

Research Course 2022 Schedule													Week 4						
MONDAY: 14-Nov-22				TUESDAY: 15-Nov-22				WEDNESDAY: 16-Nov-22			THURSDAY: 17-Nov-22 - In-Person - Please see detailed schedule once avail.				FRIDAY: 18-Nov-22				
Time	Speaker	Topic	Objectives	Time	Speaker	Topic	Objectives	Time	Speaker	Topic	Time	Speaker	Topic	Details	Time	Speaker	Topic		
08:00	Work on Project/Poster	Work on Project				POSTER DUE							Finish up Project: Final Assignment Due Small Research Grant Applications Due						
08:15		Work on Project																	
08:30		Work on Project				08:30-09:30	Grand Rounds		Need to Register to attend Zoom										
08:45		Work on Project				08:30-09:30	Dr. Adam Kirton	Presenting your results: 1) Writing an abstract 2) Putting together a poster or a 10 minute platform presentation 3) Apply these principles to your research project	1) Identify key elements of a great presentation 2) Develop strategies for effectively communicating research ideas and results 3) Apply these principles to your research project	8:45-10:30	Dr. Areefa Alladin-Karan	ACHRI Trainee Association Intro				CR 3	Dr. Carol Huang	CIP Intro	
09:00		Work on Project								Dr. Marinka Twilt	ACHIEVE Intro								
09:15		Work on Project								Keynote Speaker: Dr. James Kellner		A Winding Road: Finding Satisfaction and Joy in Clinical Research							
09:30		Work on Project								Break									
09:45		Work on Project								10:40-11:30	Poster Presentations Session 1						Presentation format: 7 min summary presentation, 3 minutes for questions (10 min per poster)		
10:00		Work on Project								Break									
10:15		Work on Project								11:40-12:30	Poster Presentations Session 2								
10:30		Work on Project								Lunch									
10:45		Work on Project								13:15-14:05	Poster Presentations Session 3 - Senior Peds Residents						Senior Resident Presentation format: 10 min summary presentation, 5 minutes for questions (15 min per presentation)		
11:00		Work on Project								Coffee Break									
11:15		Work on Project				14:15-16:00	Senior Resident/Fellows Oral Presentations												
11:30		Work on Project																	
11:45		Work on Project																	
12:00		Work on Project																	
12:15	Work on Project																		
12:30	Work on Project																		
12:45	Work on Project																		
13:00	Work on Project																		
13:15	Work on Project																		
13:30	Work on Project																		
13:45	Work on Project																		
14:00	Work on Project																		
14:15	Work on Project																		
14:30	Work on Project																		
14:45	Work on Project																		
15:00	Work on Project																		
15:15	Work on Project																		
15:30	Work on Project																		
15:45	Work on Project																		
16:00	Work on Project																		
16:15	Work on Project																		
16:30	Work on Project																		
16:45	Work on Project																		
17:00	ASSIGNMENT 3 DUE								PROJECT DUE										

**Assignment 3: Sample size considerations and statistical analysis**  
 Must be handed in via email by 1700 to:  
 1) Your Small Group Preceptors  
 2) Your project supervisor  
 3) Course coordinator (jolene.haddad@ahs.ca)

Poster must be emailed by 0830 to Course Coordinator (jolene.haddad@ahs.ca)

**Project: Research Proposal ready for submission to ethics board/scientific review**  
 Must be handed in via email by 1700 to:  
 1) Your Small Group Preceptors  
 2) Your project supervisor  
 3) Course coordinator (jolene.haddad@ahs.ca)